

FILE NO.

SERVICE MANUAL

Remote Control Digital Color Television

DP23625 (U.S.A.) (CANADA)

ORIGINAL VERSION



Chassis No. 23625-00

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

> If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

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Specifications

Power Rating
95W (Avg), 1.8A (Max)
Antenna Input Impedance
UHF/VHF/CATV
Receiving Channel 2 - 13 (VHF),
14 - 69 (UHF),
01, 14-94, 95-125 (CATV)
Remote Ready 25 Key Remote Control
Sound Output 2.0 W/CH
Intermediate Frequency
Picture IF Carrier 45.75MHz
Sound IF Carrier 41.25MHz
Color Sub Carrier 42.17MHz
LCD
Cabinet Dimensions
Width 692mm
Height
Depth including base 181mm

SAFETY INSTRUCTIONS

SAFETY PRECAUTIONS

- Comply with all caution and safety-related notes provided on the side of the cabinet, inside the cabinet, and on the chassis,
- 2. When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as control knobs, adjustment covers, shields and barriers.
- Before replacing the back cover of the set, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

ANTENNA COLD CHECK

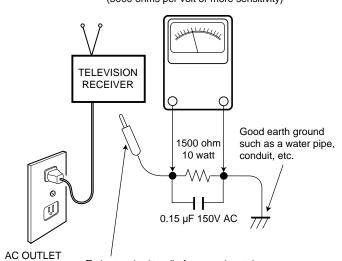
Remove AC plug from the 120 VAC outlet and place a jumper across the two blades. Connect one lead of an ohmmeter to the jumpered AC plug, and touch the other lead to each exposed antenna terminal (UHF and VHF antenna terminals). The resistance must measure between 1M ohm and 5.2M ohm. Any resistance value below or above this range indicates an abnormality which requires corrective action.

LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120 VAC outlet. (Do not use an isolation transformer for this check.) Use an AC voltmeter, that has 5000 ohms per volt or more sensitivity. Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 μ F 150 VAC capacitor, between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of the cabinet (antennas, handle bracket, metal cabinet, screw heads, metal overlays, control shafts, etc.). Measure the AC voltage across the 1500 ohm resistor. The AC voltage should not exceed 750 mV. A reading exceeding 750 mV indicates that a dangerous potential exists. The fault must be located and corrected. Repeat the above test with the receiver power plug reversed.

NEVER RETURN A RECEIVER TO THE CUSTOMER WITHOUT TAKING THE NECESSARY CORRECTIVE ACTION.

READING SHOULD NOT EXCEED 750 mV.
AC VOLTMETER
(5000 ohms per volt or more sensitivity)



To be touched to all of exposed metal parts. Voltmeter Hook-up for Leakage Current Check.

PRODUCT SAFETY NOTICE

When replacing components in a receiver, always keep in mind the necessary product safety precautions. Pay special attention to the replacement of components marked with a star (\star) in the parts list and in the schematic diagrams. To ensure safe product operation, it is necessary to replace those components with the exact same PARTS.

SERVICE ADJUSTMENTS

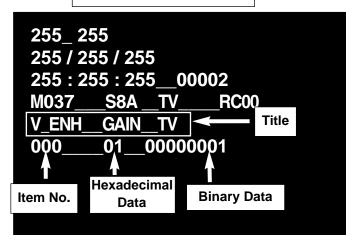
GENERAL

This set has an On-screen Service Menu system included in the CPU that allows remote operation for most of the service adjustments.

ON-SCREEN SERVICE MENU SYSTEM

- 1. Enter the Service Menu:
 - While pressing the Volume (-) button on the television, press the Number Key 1 on the remote control unit. The Service Menu will now appear.

Service Menu Display



2. Service Adjustments:

 Press the ▲ or ▼ key to select the desired service menu item you want to adjust. See page 4 for the On-screen Service Menu.

Note: Press the Mute key to skip up 16 items.

Use the + or - key or number keys to adjust the data.
 The + or - keys will increase or decrease the data sequentially. The number keys (0 ~ 7) toggle only their respective bits between 1 and 0 and are used to change the Sub-Address. For example to change bit 5 press the number 5 key. See below.

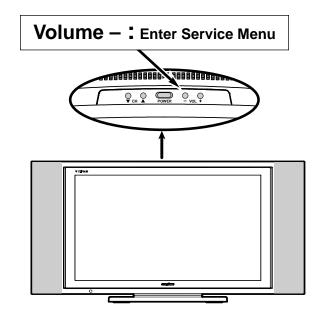
Note: Using the + or – is not recommended due to possible rapid changes.

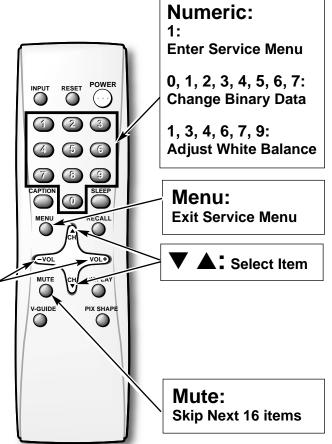
3. Exit from the Service Menu:

 Press the MENU key to turn off the Service Menu display.



(b7) (b6) (b5) (b4) (b3) (b2) (b1) (b0) BINARY DATA (8 bit)





ON-SCREEN SERVICE MENU

No.	Name	Initial Data	Note
000	V ENH GAIN TV	01h	RF input
001	V ENH GAIN OTHER	01h	Except RF
002	V ENH MAX POINT TV	03h	RF input
003	V ENH MAX POINT OTHER	03h	Except RF
004	V ENH SLICE LEVEL TV	00h	RF input
005	V ENH SLICE LEVEL OTHER	00h	Except RF
006	FENH TV	01h	RF input
007	FENH OTHER	01h	Except RF
008	SHARPNESS GAIN TV	01h	RF input
009	SHARPNESS GAIN OTHER	01h	Except RF
00A 00B	SHARPNESS SLICE LEVEL TV SHARPNESS SLICE LEVEL OTHER	00h 00h	RF input Except RF
00C	FBCLMPEX	00H	Εχθερί ΚΓ
00D	NOISE CANCEL TV	00h	RF input
00E	NOISE CANCEL OTHER	00h	Except RF
00F	SET DELAY-TV	06h	RF input
010	SET DELAY-Video	0Bh	Composite Video input
011	SET DELAY-OTHER	08h	Except RF and Composite Video input
012	LTI GAIN TV	03h	RF input
013	LTI GAIN OTHER	03h	Except RF
014	LTI SLICE LEVEL TV	00h	RF input
015	LTI SLICE LEVEL OTHER	00h	Except RF
016	CTI GAIN TV	03h	RF input
017	CTI GAIN OTHER	03h	Except RF
018	CTI SLICE LEVEL TV	00h	RF input
019	CTI SLICE LEVEL OTHER	00h	Except RF
01A	CONTRAST TV	30h	RF input, (See Service Adjustments)
01B	CONTRAST AV	30h	Video1/2, Composite, S input
01C	CONTRAST 480i/p	30h	480i/p input
01D	CR OUTPUT GAIN TV	03h	RF input
01E	CR OUTPUT GAIN AV	03h	Video1/2, Composite, S input
01F	CR OUTPUT GAIN 480i/p	03h	480i/p input
020	CB OUTPUT GAIN TV	03h	RF input
021	CB OUTPUT GAIN AV	03h	Video1/2, Composite, S input
022	CB OUTPUT GAIN 480i/p	03h	480i/p input
023	CR OFFSET-TV	00h	RF input
024	CR OFFSET 490i	00h	Video1/2, Composite, S input
025 026	CR OFFSET-480i CR OFFSET-480p	00h 00h	480i input 480p input
020	CB OFFSET-TV	00h	RF input
028	CB OFFSET-AV	00h	Video1/2, Composite, S input
029	CB OFFSET-480i	01h	480i input
02A	CB OFFSET-480p	01h	480p input
02B	HUE-TV	00h	RF input
02C	HUE-AV	00h	Video1/2, Composite, S input
			, 1 , - 1

- All data except in gray box area is fixed. Do not change for correct operation.
 Data in gray box is initial. Can be set according to adjustment information.

No.	Name	Initial Data	Note
02D	HUE-480i/p	00h	480i/p input
02E	TOF TV	01h	RF input
02F	TOF OTHER	01h	Except RF
030	Y-CLAMP-MAIN	00h	Except 480i/p
031	Y-CLAMP-480i	6Dh	480i input
032	Y-CLAMP-480p	6Dh	480p input
033	C-CLAMP-MAIN	00h	Except 480i/p
034	C-CLAMP-480i	00h	480i input
035	C-CLAMP-480p	80h	480p input
036	C-CLAMP F-MAIN	00h	Except 480i/p
037	C-CLAMP F-480i	6Fh	480i input
038	C-CLAMP F-480p	6Dh	480p input
039	COL-KILLER TV	07h	RF input
03A	COL-KILLER AV	07h	Video1/2, Composite, S input
03B	ACC TV	08h	RF input
03C	ACC AV	08h	Video1/2, Composite, S input
03D	PLL-TV AMP1	00h	RF input
03E	PLL-TV AMP2	04h	\downarrow
03F	PLL-TV AMP3	05h	\downarrow
040	PLL-TV GAIN1	0Eh	\downarrow
041	PLL-TV GAIN2	05h	\downarrow
042	PLL-TV GAIN3	06h	\downarrow
043	PLL-AV AMP1	00h	Video1/2, Composite, S input
044	PLL-AV AMP2	04h	\downarrow
045	PLL-AV AMP3	05h	\downarrow
046	PLL-AV GAIN1	0Eh	\downarrow
047	PLL-AV GAIN2	05h	↓
048	PLL-AV GAIN3	06h	<u> </u>
049	PLL-480i/p AMP1	00h	Video3, Component(480i/p) input
04A	PLL-480i/p AMP2	04h	<u> </u>
04B	PLL-480i/p AMP3	05h	
04C	PLL-480i/p GAIN1	0Eh	<u> </u>
_04D	PLL-480i/p GAIN2	05h	
_04E	PLL-480i/p GAIN3	06h	<u>↓</u>
_04F	HDPH COMP	00h	RF, Composite input
050	HDPH S	02h	S input
051	HDPH 480i	0Eh	480i input
052	HDPH 480p	00h	480p input
053	Y NOISE LIM TV	00h	RF input
054	Y NOISE LIM OTHER	00h	Except RF
055	Y NOISE GAIN TV	01h	RF input
056	Y NOISE GAIN OTHER	00h	Except RF
057	Y NOISE TV	01h	RF input
058	Y NOISE OTHER	00h	Except RF
059	COL_KILLER GAIN TV	01h	RF input
05A	COL-KILLER GAIN OTHER	01h	Except RF
05B	C NOISE LIM TV	01h	RF input
05C	C NOISE LIM OTHER	01h	Except RF
05D	C NOISE GAIN TV	00h	RF input
05E	C NOISE GAIN OTHER	00h	Except RF
05F	C NOISE TV	01h	RF input

No.	Name	Initial Data	Note
060	C NOISE OTHER	00h	Except RF
061	480i Sub-Cont	00h	Component (480i) input (Difference)
062	480i Sub-Brightness	00h	<u> </u>
063	480i Sub-Color	00h	\downarrow
064	480i Sub-Tint	00h	↓
065	480i Sub–Sharp	00h	↓
066	480p Sub-Cont	00h	Component (480p) input (Difference)
067	480p Sub-Brightness	00h	↓
068	480p Sub-Color	00h	<u> </u>
069	480p Sub-Tint	00h	\downarrow
06A	480p Sub–Sharp	00h	\downarrow
06B	AV Sub-Cont	00h	Composite Video input (Standard)
06C	AV Sub-Brightness	0Fh	↓
06D	AV Sub-Color	08h	\downarrow
06E	AV Sub-Tint	0Ah	\downarrow
06F	AV Sub-Sharp	10h	\downarrow
070	S Sub-Cont	00h	S Video input (Difference)
071	S Sub-Brightness	00h	\downarrow
072	S Sub-Color	00h	\downarrow
073	S Sub-Tint	00h	\downarrow
074	S Sub-Sharp	00h	\downarrow
075	RF Sub-Cont	00h	RF input (Difference)
076	RF Sub-Brightness	00h	\downarrow
077	RF Sub-Color	00h	\downarrow
078	RF Sub-Tint	00h	↓
079	RF Sub-Sharp	00h	\downarrow
			Composite, S, Component input, Picture: Auto
07A	Auto Contrast	0Ah	↓ (See Service Adjustments)
07B	Auto Tint	22h	\downarrow
07C	Auto Color	28h	
07D	Auto Brightness	20h	↓
07E	Auto Sharpness	10h	\downarrow
			Composite, S, Component input, Picture: Manual
07F	Man. AV Contrast	2Fh	↓ (See Service Adjustments)
080	Man. AV Tint	20h	<u> </u>
081	Man. AV Color	28h	
082	Man. AV Brightness	20h	<u> </u>
083	Man. AV Sharpness	10h	<u> </u>
	·		Composite, S, Component input, Picture: Game
084	Game AV Contrast	10h	<u> </u>
085	Game AV Tint	20h	
086	Game AV Color	10h	\downarrow
087	Game AV Brightness	20h	\downarrow
088	Game AV Sharpness	07h	\downarrow
089	White-RF-R	00h	RF(TV) input, White Balance (Difference)
08A	White-RF-G	00h	↓
08B	White-RF-B	00h	\downarrow
08C	Black-RF-R	00h	RF(TV) input, Black Balance (Difference)
08D	Black-RF-G	00h	\(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}\) \(\frac{1}2\) \(\frac{1}
08E	Black-RF-B	00h	
		5511	

No.	Name	Initial Data	Note
08F	White-AV-R	5Ch	Composite (AV) input, White Balance (Standard)
090	White-AV-G	5Ah	\downarrow
091	White-AV-B	5Ah	\downarrow
092	Black-AV-R	30h	Composite (AV) input, Black Balance (Standard)
093	Black-AV-G	30h	\downarrow
094	Black-AV-B	30h	\downarrow
095	White-S-R	00h	S (AV) input, White Balance (Difference)
096	White-S-G	00h	\downarrow
097	White-S-B	00h	\downarrow
098	Black-S-R	00h	S (AV) input, Black Balance (Difference)
099	Black-S-G	00h	\downarrow
09A	Black-S-B	00h	\downarrow
_09B	White-480i-R	00h	480i(Component) input, White Balance (Difference)
_09C	White-480i-G	00h	\downarrow
09D	White-480i-B	00h	\downarrow
09E	Black-480i-R	00h	480i(Component) input, Black Balance (Difference)
09F	Black-480i-G	00h	\downarrow
0A0	Black-480i-B	00h	\downarrow
0A1	White-480p-R	00h	480p (Component) input, White Balance (Difference)
0A2	White-480p-G	00h	\downarrow
0A3	White-480p-B	00h	\downarrow
0A4	Black-480p-R	00h	480p (Component) input, Black Balance (Difference)
0A5	Black-480p-G	00h	\downarrow
0A6	Black-480p-B	00h	↓
0A7	CT-Cool-R	F6h	Color Enhancer: Cool
0A8	CT-Cool-G	FBh	\downarrow
0A9	CT-Cool-B	00h	\downarrow
0AA	CT-Norm-R	00h	Color Enhancer: Normal
0AB	CT-Norm-G	00h	\downarrow
0AC	CT-Norm-B	00h	\downarrow
0AD	CT-Warm-R	00h	Color Enhancer: Warm
0AE	CT-Warm-G	F2h	\downarrow
0AF	CT-Warm-B	00h	↓
0B0	Sharp F0 RF	02h	RF input, Sharpness: Center
0B1	Sharp F0 OTHER	02h	Other input, Sharpness: Center
0B2	Sharp F0 480p	02h	480p input, Sharpness: Center
0B3	GAMMA1	01h	Under APL setting value
0B4	GAMMA2	01h	Beyond APL setting value
0B5	GAMMA APL	00h	Gamma Threshold
0B6	NOSIG	00h	Select Sync.
0B7	BCSB	00h	Cut of Sub-Bass or Setup of Boost
0B8	BCST	00h	Cut of Sub-Treble or Setup of Boost
0B9	SUB-BASS	00h	Setup of Cut Level of Sub Bass and Boost Level
0BA	SUB-TREB	00h	Setup of Cut Level of Sub Treble and Boost Level
0BB	BBE-Low	0Ah	Setup of Low-Pass Boost Level (Lo contour)
0BC	BBE-High	08h	Setup of High Region Boost Level (Process)
0BD	AGC	00h	AGC ON/OFF
0BE	AGC-LEVEL	00h	AGC Level Setup
0BF	WB	**	White Balance Adjustment
0C0	ВВ	**	Black Balance Adjustment
0C1	AUTO B-Bright	00h	Back Light Auto Bright (Absolute value)

No.	Name	Initial Data	Note
0C2	BLight–Bright	F0h	Back Light Bright (PWM value)
0C3	BLight–Mid	B0h	Back Light Middle (PWM value)
0C4	BLight–Dark	60h	Back Light Dark (PWM value)
0C5	APL-SW	01h	APL Switch
0C6	APL-PER	10h	Al Cycle (8ms/step)
0C7	APL-LO	36h	APL Low-Pass and Inside Region Threshold
0C8	APL–HI	48h	APL Inside and High Region Threshold
0C9	APL-MIN	10h	Gamma Minimum Value (Table No.)
0CA	APL-CEN	24h	Gamma Center Value (Table No.)
0CB	APL-MAX	48h	Gamma Maximum Value (Table No.)
0CC	APL-READ-NUM	05h	Number of APL Read-out Times
0CD	APL-READ-PER	01h	APL Read-out Cycle
0CE	APL-0	70h	APL Read-out Value (APL=0%: Black)
0CF	APL-100	E0h	APL Read-out Value (APL=100%: White)
0D0	POWER ERR	00h	Power Failure History
0D1	OPTION	**h	Option Monitor (Read-out)
0D2	PANEL TIME1	**h	Used Time of LCD Panel
0D3	PANEL TIME2	**h	Used Time of Unit
0D4	OSD HP	00h	OSD H-Phase
0D5	CCD HP	00h	CCD H-Phase
0D6	CCD Slicer Level	0Bh	CCD Slicer Level
0D7	PASSWORD	00h	Password
0D8	VUP FULL	01h	
0D9	VUP JUST	01h	
0DA	VUP ZOOM	01h	
0DB	VUP NORMAL	01h	
0DC	VSC FULL	0Ah	
0DD	VSC JUST	07h	
0DE	VSC ZOOM	04h	
0DF	VSC NORMAL	0Ah	
0E0	HSC1 N FULL	0Fh	
0E1	HSC1 N JUST	0Fh	
0E2	HSC1 N ZOOM	0Fh	
0E3	HSC1 N NORMAL	0Bh	
0E4	HSC1 D FULL	1Eh	
0E5	HSC1 D JUST	08h	
0E6	HSC1 D ZOOM	1Eh	
0E7	HSC1 D NORMAL	10h	
0E8	HSC2 N FULL	13h	
0E9	HSC2 N JUST	07h	
0EA	HSC2 N ZOOM	07h	
0EB	HSC2 N NORMAL	0Ch	
0EC	HSC2 D FULL	0Fh	
0ED	HSC2 D JUST	0Fh	
0EE	HSC2 D ZOOM	0Fh	
0EF	HSC2 D NORMAL	11h	
0F0	HST FULL	76h	
0F1	HST JUST	68h	
0F1 0F2	HST ZOOM	76h	
0F2 0F3	HST NORMAL	2Fh	
UFS	1101 NONWAL	2711	

No.	Name	Initial Data	Note
0F4	VST FULL	44h	
0F5	VST JUST	54h	
0F6	VST ZOOM	7Eh	
0F7	VST NORMAL	44h	
0F8	VUP FULL 480p	01h	
0F9	VUP JUST 480p	01h	
0FA	VUP ZOOM 480p	01h	
0FB	VUP NORMAL 480p	01h	
0FC	VSC FULL 480p	0Ah	
0FD	VSC JUST 480p	07h	
0FE	VSC ZOOM 480p	04h	
0FF	VSC NORMAL 480p	0Ah	
100	HSC1 N FULL 480p	0Fh	
101	HSC1 N JUST 480p	0Fh	
102	HSC1 N ZOOM 480p	07h	
103	HSC1 N NORMAL 480p	04h	
104	HSC1 D FULL 480p	1Eh	
105	HSC1 D JUST 480p	08h	
106	HSC1 D ZOOM 480p	0Eh	
107	HSC1 D NORMAL 480p	06h	
108	HSC2 N FULL 480p	13h	
109	HSC2 N JUST 480p	07h	
10A	HSC2 N ZOOM 480p	07h	
10B	HSC2 N NORMAL 480p	0Ch	
10C	HSC2 D FULL 480p	0Fh	
10D	HSC2 D JUST 480p	0Fh	
10E	HSC2 D ZOOM 480p	0Fh	
10F	HSC2 D NORMAL 480p	11h	
110	HST FULL 480p	98h	
111	HST JUST 480p	94h	
112	HST ZOOM 480p	98h	
113	HST NORMAL 480p	8Ah	
114	VST FULL 480p	4Ch	
115	VST JUST 480p	5Ch	
116	VST ZOOM 480p	89h	
117	VST NORMAL 480p	4Fh	
118	R001	00h	ROM Correction Data
119		00h	ROM Correction Data
11A		00h	ROM Correction Data
		1	\downarrow
		\downarrow	↓
		1	↓
1B0		00h	ROM Correction Data
1B1		00h	ROM Correction Data
1B2		00h	ROM Correction Data

SERVICE ADJUSTMENTS (Continued)

WHITE BALANCE ADJUSTMENT

Composite (External Video Input)

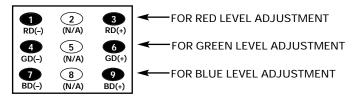
- Connect a color-bar generator to the external (composite) video input terminal.
- 2. Switch the generator to the white pattern.
- 3. Set the television to following conditions:

Picture: AUTO
Color Enhancer: Normal
Back Light: Bright
Display Area: 4:3

- 4. Enter the Service Mode. The Menu display will appear.
- 5. Select "White Balance Adjustment" Menu (No. 0BF).
- 6. Adjust Red, Green, and Blue Levels alternately with 1, 3, 4, 6, 7, or 9 keys to produce normal black and white picture in highlight areas.

The White Balance Level adjustment data will be written automatically in the Service Menu No. 08F(R), No. 090(G), and No. 091(B).

Note: One or two data of RGB should be left at "5C" for normal contrast level. Do not change the data to more than "5C."



Remote Control Number keys' functions in Service Menu "White Balance Adjustment"

Other Inputs

Caution: White Balance Adjustment of **Composite** must be completed before attempting other input adjustments.

White Balance Adjustment for other modes [RF, S (Y/C), Component (480i/ 480p)] may be unnecessary if the adjustment of Composite is OK.

- 1. Connect a color-bar generator to the preferred video input terminal.
- 2. Switch the generator to the white pattern.
- 3. Set the television to following conditions:

Picture: AUTO
Color Enhancer: Normal
Back Light: Bright
Display Area: 16:9

- 4. Enter the Service Mode. The Menu display will appear.
- 5. Select "White Balance Adjustment" Menu (No. 0BF).
- 6. Adjust Red, Green, and Blue Levels alternately with 1, 3, 4, 6, 7, or 9 key to produce normal black and white picture in highlight areas.

The White Balance Level adjustment data will be written automatically in the following Service Menu:

RF No 89 (R), 8A (G), 8B (B) S (Y/C) No. 95 (R), 96 (G), 97 (B) Component (480i) No. 9B (R), 9C (G), 9D (B) Component (480p) No. A1 (R), A2 (G), A3 (B)

BLACK BALANCE ADJUSTMENT

Black Balance Adjustment may be unnecessary if the White Balance Adjustment of Composite is OK.

Composite (External Video Input)

- Connect a color-bar generator to the external (composite) video input terminal.
- 2. Switch the generator to the dark grey pattern ("30% white" recommended).
- 3. Set the television to following conditions:

Picture: AUTO
Color Enhancer: Normal
Back Light: Bright
Display Area: 16:9

- 4. Enter the Service Mode. The Menu display will appear.
- 5. Select "Black Balance Adjustment" Menu (No. 0C0).
- 6. Adjust Red, Green, and Blue Levels alternately with 1, 3, 4, 6, 7, or 9 key to produce normal black and white picture in dark grey areas. The Black Balance Level adjustment data will be written automatically in the Service Menu No. 092(R), No. 093(G), and No. 094(B).

Other Inputs

Caution: Black Balance Adjustment of **Composite** must be completed before attempting other input adjustments.

- Connect a color-bar generator to the preferred video input terminal.
- 2. Switch the generator to the dark gray pattern.
- 3. Set the television to following conditions:

Picture: AUTO
Color Enhancer: Normal
Back Light: Bright
Display Area: 16:9

- 4. Enter the Service Mode. The Menu display will appear.
- 5. Select "Black Balance Adjustment" Menu (No. 0C0).
- 6. Adjust Red, Green, and Blue Levels alternately with 1, 3, 4, 6, 7, or 9 key to produce normal black and white picture in dark grey areas. The Black Balance Level adjustment data will be written automatically in the following Service Menu.

RF No 8C (R), 8D (G), 8E (B) S (Y/C) No. 98 (R), 99 (G), 9A (B) Component (480i) No. 9E (R), 9F (G), A0 (B) Component (480p) No. A4 (R), A5 (G), A6 (B)

POWER FAILURE CIRCUIT

CPU (IC801) is programmed so the set will go to the standby mode when there is circuit failure as described below. (Refer to "Block Diagram Power Lines" and "Block Diagram Power Board").

1. Power Failure 1: Detected voltage failure for digital circuit. (Connected to IC801 pin 1.)

2. Power Failure 2: Detected voltage failure for analog circuit. (Connected to IC801 pin 16.)

(Normal: High; Failure: Low)

Note: If power failure is detected 3 times in 15 minutes, the set will enter the standby mode and cannot be switched On.To reset the operating programs of the CPU it is necessary to disconnect the AC cord or AC adapter for a short time.

History of Power Failure

When finishing the repair or stopping the Power Failure, the history of past failures can be checked.

To see the history

1. Enter the service mode. See "Service Adjustments" page 3.

2. Select Item No.0D0 POWER ERR from the Service Adjustment Data Table.

History of Power Failures (Item No. 0C9)

Failure Name	Data
No Failure	00h(0)
Power Failure 1	01h(1)
Power Failure 2	02h(2)

Note: If simultaneous failures have been detected, the sum of each data is displayed.

For example:

Power failures 1 & 2 01h + 02h = **03h(3)**

Attention:

After finishing service, reset the data of Item No. 0D0 with the + or - keys to "00h(0)."

MECHANICAL DISASSEMBLY

CAUTION: This LCD TV uses several different kinds of screws. Using the correct screw is necessary to prevent damage. Lead wires must be redressed to their previous locations after servicing.

STAND REMOVAL

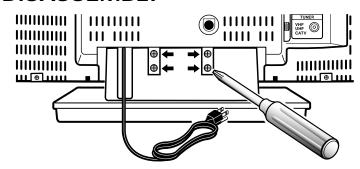
Note: Position TV face down on a padded or cushioned surface to protect the screen and finish.

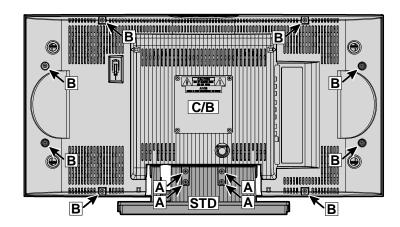
Remove 4 screws to take the stand off.



Remove 6 screws (B: 4X14) to take the cabinet back (C/B) off.

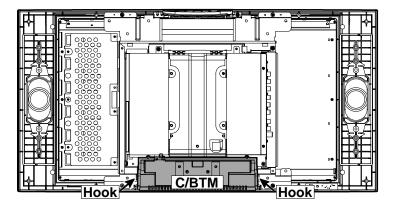
Note: The cabinet back can be removed without removing the stand.





CABINET BOTTOM REMOVAL

Press 2 hooks inside to remove the cabinet bottom (C/BTM).

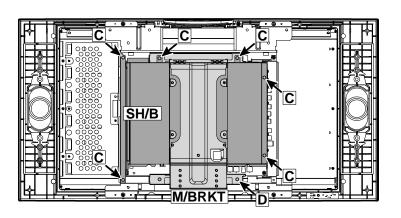


SHIELD BACK REMOVAL

Remove 6 screws (C: 3X10) to remove the shield back (SH/B).

MOUNTING BRACKET REMOVAL

Remove a screw (D: 3X10) to remove the mounting bracket (M/BRKT).



MAIN BOARD REMOVAL

Remove 5 screws (E: 3X10) to remove the main board with the terminal base (TMNL/B) and audio output jacks (MO/JACK) (assembly parts).

RC BOARD REMOVAL

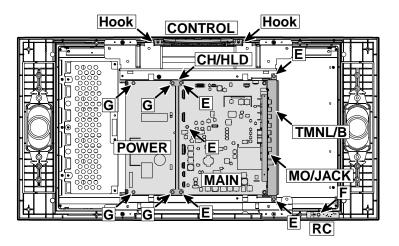
Remove a screw (F: 4X14) to remove the RC board.

POWER BOARD REMOVAL

Remove 4 screws (G: 3X10) to remove the power board with the chassis holder (CH/HLD) (assembly parts).

CONTROL BOARD REMOVAL

Press 2 hooks inside to remove the control board with the panel top and button assembly.



SPEAKER REMOVAL

Remove 4 holders (SP/HLD) to remove speakers.

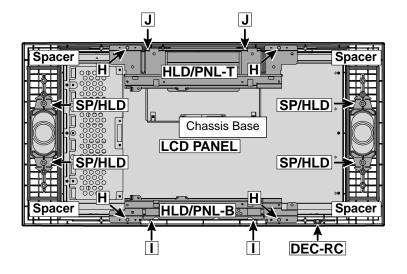
LCD PANEL REMOVAL

- Remove 4 screws (H: 3X10) to remove the LCD panel with the top (HLD/PNL-T) and bottom (HLD/PNL-B) panel holders.
- 2. Remove 2 screws (J: 3X10) to remove the top panel holder (HLD/PNL-T).
- 3. Remove 2 screws (I: 3X10) to remove the bottom panel holder (HLD/PNL-B).

CABINET FRONT REMOVAL

- 1. Complete previous disassembly procedures.
- 2. Remove spacer (Buffer tape) and DEC-RC (Decoration for remote control receiver).

Note: The spacers can be reused.



CHASSIS ELECTRICAL PARTS LIST

CAUTION: To Protect against electrical shock and for continued product safety, refer to SAFETY PRECAUTIONS, and PRODUCT SAFETY NOTICE on Page 2.

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A REPLACEMENT IS MADE IN ANY AREA OF A RECEIVER. COMPONENTS INDICATED BY A STAR (*) IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM DESIGNATE COMPONENTS IN WHICH SAFETY CAN BE OF SPECIAL SIGNIFICANCE. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS DESIGNATED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT DESIGNATED BY A STAR. NO DEVIATIONS FROM RESISTANCE, WATTAGE, AND VOLTAGE RATINGS MAY BE MADE FOR REPLACEMENT ITEMS DESIGNATED BY A STAR.

Note: Schematic part location numbers may not always match with the part descriptions. The part descriptions are correct and should be used.

Schematic Location	Part No.	Description	Schematic Location	Part No.	De	Description	
	CAPACITORS		C002	403 296 9502	ELECT	100U M	16V
NOTES:				403 391 5102	ELECT	100U M	16V
Read descripti	on of the Capacitor	as follows:	C003	403 184 8402	ELECT	4.7U M	25V
(Example)				403 391 5706	ELECT	4.7U M	25V
, , ,	100P <u>K</u> 50V		C006	403 393 0006	ELECT	470U M	25V
	\top \top $$	Rated Voltage		403 420 1402	ELECT	470U M	25V
		erance Symbols:	C007	403 393 0006	ELECT	470U M	25V
		than 10PF Not specified		403 420 1402	ELECT	470U M	25V
		±0.1PF C±0.25PF	C021	403 364 5801	CERAMIC	1U K	10V
	D	±0.5PF F±1PF	C022	403 224 5903	CERAMIC	3300P K	50V
		±2PF R+0.25 - 0PF	C023	403 364 5801	CERAMIC	1U K	10V
		+0 - 0.25PF E+0 - 1PF e than 10PF	C024	403 224 5903	CERAMIC	3300P K	50V
		Not specified	C026	403 364 5900	CERAMIC	0.22U K	16V
	В	±0.1% C±0.25%	C027	403 364 5900	CERAMIC	0.22U K	16V
		±0.5% F±1%	C028	403 364 5900	CERAMIC	0.22U K	16V
		±2% H±3% ±5% K±10%	C029	403 364 5900	CERAMIC	0.22U K	16V
		±15% K±10%	C109	403 235 6203	CERAMIC	0.01U Z	50V
	N	±30% P+100 - 0%	C112	403 224 6306	CERAMIC	0.033U Z	50V
		+30 - 10% T+50 - 10%	C114	403 408 6207	NP-ELECT	10U M	16V
		+75 - 10% V+20 - 10% +100 - 10% X+40 - 20%	C601	403 175 7209	ELECT	10U M	16V
		.+150 - 10% X+40 - 20%	C601	403 391 5508	ELECT	10U M	16V
	Rated Value:	PPico Farad UMicro Farad	C603	403 224 6306	CERAMIC	0.033U Z	50V
	erial:		C604	403 393 0006	ELECT	470U M	25V
	AMIC Cera PAPER Met			403 420 1402	ELECT	470U M	25V
	YESTERPoly		C605	403 224 6306	CERAMIC	0.033U Z	50V
MT-	POLYESTMet	alized Polyester	C606	403 235 1109	CERAMIC	270P J	50V
		/propylene	C607	403 224 6009	CERAMIC	4700P K	50V
	POLYPROMet NPO-FILMCom	alized Polypropylene	C608	403 224 6009	CERAMIC	4700P K	50V
MT-	/IPO-FILIVICOM COMPO Met	alized Composite	C609	403 224 6009	CERAMIC	4700P K	50V
STY	RENE Styr	rene .	C618	403 296 9502	ELECT	100U M	16V
TA-S	SOLID Tan	talum Solid		403 391 5102	ELECT	100U M	16V
	SOLID Alur		C619	403 387 4904	ELECT	100U M	6.3V
	CTElec	etrolytic n-Polarized Electrolytic		403 394 1309	ELECT	100U M	6.3V
OS-	SOLIDAlur	minum Solid with Organic	C631	403 393 0006	ELECT	470U M	25V
		niconductive Electrolytic		403 420 1402	ELECT	470U M	25V

CAST 403 397 000	Schematic Location	Part No.	De	scription		Schematic Location	Part No.	Desc	cription	
C634	C632	403 393 0006	ELECT	470U M	25V	 C1600	403 135 0707	CERAMIC	1U K	25V
C654		403 420 1402	ELECT	470U M	25V	C1601	403 135 0707	CERAMIC	1U K	25V
C642	C633	403 279 0106	CERAMIC	0.1U Z	25V	★ C1602	404 096 0508	MT-POLYEST	0.1U M	275V
C642	C634	403 279 0106	CERAMIC	0.1U Z	25V	★ C1603	404 096 0508	MT-POLYEST	0.1U M	275V
C645 403 309 1400	C641	403 397 6707	ELECT	470U M	25V	C1604	403 370 1507	CERAMIC	0.1U K	50V
C645FM A03 336 5600 CIRAMIC 1.001	C642	403 397 6707	ELECT	470U M	25V	C1605		CERAMIC	1000P K	1K
Constant Constant	C644	403 309 1400	CERAMIC	1U Z			403 271 9602	CERAMIC	1000P K	
C647				1.0U Z						
C656 403 279 0106 CERAMIC 0.1U Z 25V 403 370 1507 CERAMIC 0.1U K 50V				10U M		C1606				
C657				1000U M						
C658										
C658	C657									
403 394 1309						C1608				
C659	C658									
C671										
403 394 9305										
C672	C6/1									
C673	0/70									
C674						C1613				
C674	C6/3									
C676	0/74					01/14				
C677										
C677 403 279 0106 CERAMIC 0.1 U Z 25V C1618 403 222 1907 CERAMIC 220P K 1 K C678 403 387 4904 ELECT 100U M 6.3V 403 223 20204 CERAMIC 220P K 1 K C679 403 279 0106 CERAMIC 20U M 6.3V 403 223 20204 CERAMIC 100D K 1 K C682 403 387 5109 ELECT 220U M 6.3V 403 221 1303 CERAMIC 100D K 1 K C682 403 387 5109 ELECT 220U M 6.3V 403 221 1806 CERAMIC 100D F K 1 K C803 403 279 0106 CERAMIC 0.1U Z 25V C1620 403 222 1303 CERAMIC 100D F K 1 K C806 403 279 0106 CERAMIC 0.1U Z 25V C1620 403 221 1806 CERAMIC 100D F K 1 K C851 403 237 90106 CERAMIC 0.1U Z 25V C1620 403 221 1806 CERAMIC 100D F K 1 K	C676									
C678	C477									
C679						C1018				
C679 403 279 0106 CERAMIC 0.1U Z 25V C1619 403 222 1303 CERAMIC 1000 P K 1 K C682 403 387 5109 ELECT 220U M 6.3V 403 271 9602 CERAMIC 1000P K 1 K C803 403 394 9305 ELECT 220U M 6.3V 403 222 1806 CERAMIC 1000P K 1 K C804 403 279 0106 CERAMIC 0.1U Z 25V 403 221 3803 CERAMIC 1000P K 1 K C806 403 279 0106 CERAMIC 0.1U Z 25V 403 222 1806 CERAMIC 1000P K 1 K C851 403 235 0607 CERAMIC 0.1U Z 25V 403 350 5006 ELECT 100D M 25V C854 403 345 6605 CERAMIC 1U Z 10V C1622 403 350 5006 ELECT 100U M 25V C854 403 391 5706 ELECT 4.7U M 25V ★ C1623 403 350 5006 ELECT 100U M 25V C861 403 184 8402	C076									
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CB03						C1017				
C803 403 279 0106 CERAMIC 0.1U Z 25V C1620 403 221 303 CERAMIC 1000 P K 1 K C804 403 279 0106 CERAMIC 0.1U Z 25V 403 271 9602 CERAMIC 1000 P K 1 K C806 403 279 0106 CERAMIC 0.1U Z 25V 403 262 1806 CERAMIC 1000 P K 1 K C851 403 235 0607 CERAMIC 100 P J 50V C1621 403 380 1605 MT-POLYEST 0.1U K 400V C852 403 345 6605 CERAMIC 1U Z 10V C1622 403 350 5006 ELECT 100U M 25V C854 403 309 1400 CERAMIC 1U Z 10V C1623 403 350 5006 ELECT 680U M 25V C861 403 380 5600 CERAMIC 1U Z 10V C1624 403 419 9402 ELECT 680U M 25V C876 403 391 5006 ELECT 4.7U M 25V ★ C1625 404 084 2408 ELECT 1000 M 25V C876	0002									
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C854 403 309 1400 CERAMIC 1U Z 10V C1623 403 350 5006 ELECT 100U M 25V C861 403 184 8402 ELECT 4.7U M 25V ★ C1625 404 088 2909 CERAMIC 1000P M 25V C876 403 184 8402 ELECT 4.7U M 25V ★ C1625 404 088 2909 CERAMIC 1000P M 25V C876 403 399 1400 CERAMIC 1.0U Z 10V C1626 404 084 2408 ELECT 470U M 6.3V C877 403 336 5600 CERAMIC 1.0U Z 10V ★ C1629 404 088 2909 CERAMIC 1000P M 250V C886 403 279 0106 CERAMIC 0.1U Z 25V ★ C1630 404 088 2909 CERAMIC 1000P M 250V C1004 403 175 7209 ELECT 10U M 16V C1831 403 233 0807 ELECT 10U M 50V C1007 403 175 7209 ELECT 10U M 16V C1832 403 387 5307 ELECT 47U M 6.3V C1014 403 175 7209 ELECT 10U M 16										
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C861 403 184 8402 ELECT 4.7U M 25V ★ C1625 404 088 2909 CERAMIC 1000P M 250V C876 403 391 5706 ELECT 4.7U M 25V C1626 404 084 3405 ELECT 1000U M 25V C876 403 309 1400 CERAMIC 1U Z 10V ★ C1628 404 084 2408 ELECT 470U M 6.3V C877 403 279 0106 CERAMIC 0.1U Z 25V ★ C1629 404 088 2909 CERAMIC 1000P M 250V C886 403 235 6203 CERAMIC 0.01U Z 50V C1632 403 233 0807 ELECT 10U M 50V C1004 403 175 7209 ELECT 10U M 16V C1831 403 279 0106 CERAMIC 0.1U Z 25V C1007 403 175 7209 ELECT 10U M 16V C1832 403 387 5307 ELECT 47U M 6.3V C1007 403 175 7209 ELECT 10U M 16V C1899 403 279 0106 CERAMIC <td< td=""><td></td><td></td><td></td><td></td><td>10V</td><td></td><td></td><td></td><td></td><td></td></td<>					10V					
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C877 403 336 5600 CERAMIC 1.0U Z 10V ★ C1629 404 088 2909 CERAMIC 1000P M 250V C877 403 279 0106 CERAMIC 0.1U Z 25V ★ C1630 404 088 2909 CERAMIC 1000P M 250V C886 403 235 6203 CERAMIC 0.01U Z 50V C1632 403 233 0807 ELECT 10U M 50V C1004 403 175 7209 ELECT 10U M 16V C1831 403 279 0106 CERAMIC 0.1U Z 25V C1007 403 175 7209 ELECT 10U M 16V C1832 403 387 5307 ELECT 47U M 6.3V C1007 403 175 7209 ELECT 10U M 16V C1899 403 392 1202 ELECT 47U M 6.3V C1014 403 175 7209 ELECT 10U M 16V C1862 403 393 2109 CERAMIC 0.1U Z 25V C1022 403 175 7209 ELECT 10U M 16V C1962 403 393 2109 CERAMIC										
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C886 403 235 6203 CERAMIC 0.01U Z 50V C1632 403 233 0807 ELECT 10U M 50V C1004 403 175 7209 ELECT 10U M 16V C1831 403 279 0106 CERAMIC 0.1U Z 25V C1007 403 175 7209 ELECT 10U M 16V C1832 403 387 5307 ELECT 47U M 6.3V C1007 403 175 7209 ELECT 10U M 16V C1899 403 279 0106 CERAMIC 0.1U Z 25V C1014 403 175 7209 ELECT 10U M 16V C1962 403 393 2109 CERAMIC 0.1U Z 25V C1014 403 175 7209 ELECT 10U M 16V C1962 403 393 2109 CERAMIC 4.7U K 6.3V C1022 403 175 7209 ELECT 10U M 16V C1963 403 393 2109 CERAMIC 4.7U K 6.3V C1022 403 175 7209 ELECT 10U M 16V C2001 403 279 0106 CERAMIC		403 336 5600	CERAMIC	1.0U Z	10V	★ C1629	404 088 2909	CERAMIC	1000P M	250V
C1004	C877	403 279 0106	CERAMIC	0.1U Z	25V	★ C1630	404 088 2909	CERAMIC	1000P M	250V
C1007	C886	403 235 6203	CERAMIC	0.01U Z	50V	C1632	403 233 0807	ELECT	10U M	50V
C1007	C1004	403 175 7209	ELECT	10U M	16V	C1831	403 279 0106	CERAMIC	0.1U Z	25V
C1014		403 391 5508	ELECT	10U M	16V	C1832	403 387 5307	ELECT	47U M	6.3V
C1014	C1007	403 175 7209	ELECT	10U M	16V		403 392 1202	ELECT	47U M	6.3V
C1022 403 391 5508 ELECT 10U M 16V C1963 403 393 2109 CERAMIC 4.7U K 6.3V 403 175 7209 ELECT 10U M 16V C2001 403 279 0106 CERAMIC 0.1U Z 25V 403 391 5508 ELECT 10U M 16V C2002 403 235 6203 CERAMIC 0.01U Z 50V C1201 403 235 6203 CERAMIC 0.01U Z 50V C2003 403 279 0106 CERAMIC 0.1U Z 25V C1202 403 235 6203 CERAMIC 0.01U Z 50V C2003 403 279 0106 CERAMIC 0.1U Z 25V C1202 403 235 6203 CERAMIC 0.01U Z 50V C2004 403 387 5307 ELECT 47U M 6.3V C1204 403 296 9502 ELECT 100U M 16V C2004 403 392 1202 ELECT 47U M 6.3V 403 391 5102 ELECT 100U M 16V C2006 403 279 0106 CERAMIC 0.1U Z 25V		403 391 5508	ELECT	10U M	16V	C1899	403 279 0106	CERAMIC	0.1U Z	25V
C1022	C1014	403 175 7209		10U M	16V		403 393 2109	CERAMIC		
403 391 5508 ELECT 10U M 16V C2002 403 235 6203 CERAMIC 0.01U Z 50V C1201 403 235 6203 CERAMIC 0.01U Z 50V C2003 403 279 0106 CERAMIC 0.1U Z 25V C1202 403 235 6203 CERAMIC 0.01U Z 50V C2004 403 387 5307 ELECT 47U M 6.3V C1204 403 296 9502 ELECT 100U M 16V C2004 403 279 0106 CERAMIC 0.1U Z 25V 403 391 5102 ELECT 100U M 16V C2006 403 279 0106 CERAMIC 0.1U Z 25V		403 391 5508		10U M	16V	C1963	403 393 2109	CERAMIC		
C1201 403 235 6203 CERAMIC 0.01U Z 50V C2003 403 279 0106 CERAMIC 0.1U Z 25V C1202 403 235 6203 CERAMIC 0.01U Z 50V C2004 403 387 5307 ELECT 47U M 6.3V C1204 403 296 9502 ELECT 100U M 16V C2004 403 392 1202 ELECT 47U M 6.3V 403 391 5102 ELECT 100U M 16V C2006 403 279 0106 CERAMIC 0.1U Z 25V	C1022	403 175 7209		10U M	16V		403 279 0106	CERAMIC		
C1202 403 235 6203 CERAMIC 0.01U Z 50V C2004 403 387 5307 ELECT 47U M 6.3V C1204 403 296 9502 ELECT 100U M 16V C2004 403 392 1202 ELECT 47U M 6.3V 403 391 5102 ELECT 100U M 16V C2006 403 279 0106 CERAMIC 0.1U Z 25V		403 391 5508	ELECT	10U M			403 235 6203	CERAMIC		
C1204 403 296 9502 ELECT 100U M 16V C2004 403 392 1202 ELECT 47U M 6.3V 403 391 5102 ELECT 100U M 16V C2006 403 279 0106 CERAMIC 0.1U Z 25V										
403 391 5102 ELECT 100U M 16V C2006 403 279 0106 CERAMIC 0.1U Z 25V										
	C1204									
C1206 403 408 6207 NP-ELECT 10U M 16V C2007 403 224 5804 CERAMIC 2200P K 50V										
	C1206	403 408 6207	NP-ELECT	10U M	16V	C2007	403 224 5804	CERAMIC	2200P K	50V

Schematic Location	Part No.	De	scription			Schematic Location	Part No.	De	escription	
C2008	403 387 5307	ELECT	47U M	6.3V	J	C2104	403 234 9908	CERAMIC	27P J	50V
	403 392 1202	ELECT	47U M	6.3V		C2106	403 364 7508	CERAMIC	10P J	50V
C2009	403 235 6203	CERAMIC	0.01U Z	50V		C2107	403 235 0409	CERAMIC	68P J	50V
C2011	403 279 0106	CERAMIC	0.1U Z	25V		C2108	403 396 6302	CERAMIC	0.47U Z	16V
C2012	403 224 5507	CERAMIC	22P J	50V		C2121	403 345 9606	CERAMIC	0.47U K	10V
C2013	403 234 9809	CERAMIC	18P J	50V		C2122	403 234 9700	CERAMIC	12P J	50V
C2014	403 224 5705	CERAMIC	1000P K	50V		C2123	403 234 9601	CERAMIC	15P J	50V
C2016	403 235 6203	CERAMIC	0.01U Z	50V		C2124	403 234 9908	CERAMIC	27P J	50V
C2017	403 235 6203	CERAMIC	0.01U Z	50V		C2126	403 364 7508	CERAMIC	10P J	50V
C2018	403 279 0106	CERAMIC	0.1U Z	25V		C2128	403 279 0106	CERAMIC	0.1U Z	25V
C2019	403 387 5109	ELECT	220U M	6.3V		C2141	403 175 7209	ELECT	10U M	16V
	403 394 9305	ELECT	220U M	6.3V			403 391 5508	ELECT	10U M	16V
C2021	403 279 0106	CERAMIC	0.1U Z	25V		C2142	403 364 7508	CERAMIC	10P J	50V
C2022	403 235 6203	CERAMIC	0.01U Z	50V		C2143	403 364 7508	CERAMIC	10P J	50V
C2023	403 235 6203	CERAMIC	0.01U Z	50V		C2144	403 234 9601	CERAMIC	15P J	50V
C2024	403 235 6203	CERAMIC	0.01U Z	50V		C2146	403 364 7508	CERAMIC	10P J	50V
C2026	403 279 0106	CERAMIC	0.1U Z	25V		C2148	403 396 6302	CERAMIC	0.47U Z	16V
C2027	403 387 5109	ELECT	220U M	6.3V		C2161	403 175 7209	ELECT	10U M	16V
C2027	403 394 9305	ELECT	220U M	6.3V		02.0.	403 391 5508	ELECT	10U M	16V
C2028	403 279 0106	CERAMIC	0.1U Z	25V		C2162	403 364 7508	CERAMIC	10P J	50V
C2029	403 235 6203	CERAMIC	0.01U Z	50V		C2163	403 364 7508	CERAMIC	10P J	50V
C2031	403 235 6203	CERAMIC	0.01U Z	50V		C2164	403 234 9601	CERAMIC	15P J	50V
C2032	403 235 6203	CERAMIC	0.01U Z	50V		C2166	403 364 7508	CERAMIC	10P J	50V
C2033	403 235 6203	CERAMIC	0.01U Z	50V		C2168	403 396 6302	CERAMIC	0.47U Z	16V
C2034	403 235 6203	CERAMIC	0.01U Z	50V		C2181	403 175 7209	ELECT	10U M	16V
C2036	403 235 6203	CERAMIC	0.01U Z	50V		02101	403 391 5508	ELECT	10U M	16V
C2037	403 235 0409	CERAMIC	68P J	50V		C2182	403 364 7508	CERAMIC	10P J	50V
C2038	403 387 4904	ELECT	100U M	6.3V		C2183	403 364 7508	CERAMIC	10P J	50V
02000	403 394 1309	ELECT	100U M	6.3V		C2184	403 234 9601	CERAMIC	15P J	50V
C2039	403 279 0106	CERAMIC	0.1U Z	25V		C2186	403 364 7508	CERAMIC	10P J	50V
C2041	403 235 6203	CERAMIC	0.01U Z	50V		C2188	403 396 6302	CERAMIC	0.47U Z	16V
C2042	403 235 6203	CERAMIC	0.01U Z	50V		C3001	403 345 6605	CERAMIC	1U Z	10V
C2043	403 235 6203	CERAMIC	0.01U Z	50V		C3002	403 345 6605	CERAMIC	1U Z	10V
C2043	403 279 0106	CERAMIC	0.010 Z	25V		C3002	403 345 6605	CERAMIC	1U Z	10V
C2044	403 387 4904	ELECT	100U M	6.3V		C3004	403 345 6605	CERAMIC	1U Z	10V
02040	403 394 1309	ELECT	100U M	6.3V		C3004	403 224 6207	CERAMIC	0.022U Z	50V
C2047	403 235 6203	CERAMIC	0.01U Z	50V		C3007	403 224 5804	CERAMIC	2200P K	50V
C2047	403 235 6203	CERAMIC	0.01U Z	50V		C3007	403 279 0106	CERAMIC	0.1U Z	25V
C2040	403 235 6203	CERAMIC	0.01U Z	50V		C3009	403 345 6605	CERAMIC	1U Z	10V
C2047	403 387 4904	ELECT	100U M	6.3V		C3011	403 309 1400	CERAMIC	1U Z 10V	10 V
C2031	403 394 1309	ELECT	100U M	6.3V		03011	403 336 5600	CERAMIC	1.0U Z	10V
C2052	403 279 0106	CERAMIC	0.1U Z	25V		C3012	403 309 1400	CERAMIC	1.00 Z 1U Z 10V	100
C2052	403 235 6203	CERAMIC	0.10 Z	50V		03012	403 336 5600	CERAMIC	1.0U Z	10V
C2053		ELECT	100U M	6.3V		C3013	403 309 1400	CERAMIC	1.00 Z 1U Z 10V	100
C2034	403 387 4904	ELECT	1000 M	6.3V		C3013	403 336 5600	CERAMIC	1.0U Z	10V
C2056	403 394 1309	CERAMIC				C3014	403 309 1400		1.00 Z 1U Z 10V	100
	403 279 0106		0.1U Z	25V		C3014		CERAMIC		101/
C2057	403 279 0106	CERAMIC	0.1U Z	25V		C2014	403 336 5600	CERAMIC	1.0U Z	10V
C2058	403 279 0106	CERAMIC	0.1U Z	25V		C3016	403 309 1400	CERAMIC	1U Z 10V	101/
C2061	403 235 0607	CERAMIC	100P J	50V		C2010	403 336 5600	CERAMIC	1.0U Z	10V
C2098	403 279 0106	CERAMIC	0.1U Z	25V		C3018	403 319 4804	CERAMIC	0.22U Z	16V
C2099	403 175 7209	ELECT	10U M	16V		C3019	403 345 6605	CERAMIC	1U Z	10V
00101	403 391 5508	ELECT	10U M	16V		C3021	403 279 0106	CERAMIC	0.1U Z	25V
C2101	403 175 7209	ELECT	10U M	16V		C3022	403 224 5804	CERAMIC	2200P K	50V
00100	403 391 5508	ELECT	10U M	16V		C3023	403 309 1400	CERAMIC	1U Z 10V	10)
C2102	403 234 9700	CERAMIC	12P J	50V		02024	403 336 5600	CERAMIC	1.0U Z	10V
C2103	403 234 9601	CERAMIC	15P J	50V		C3024	403 345 6605	CERAMIC	1U Z	10V

Schematic Location	Part No.	De	Description			Schematic Location	Part No.	Description
C3026	403 345 6605	CERAMIC	1U Z	10V		D1600	407 007 7702	DIODE EU2A
C3027	403 345 6605	CERAMIC	1U Z	10V		D1601	407 007 7702	DIODE EU2A
C3028	403 345 6605	CERAMIC	1U Z	10V		★ D1602	407 231 2801	PHOTO COUPLE PC123YC2
C3029	403 397 5809	ELECT	1000U M	10V		★ D1603	407 231 2801	PHOTO COUPLE PC123YC2
C3083	403 175 7209	ELECT	10U M	16V		D1604	407 207 4709	DIODE D5SBA60
	403 391 5508	ELECT	10U M	16V			407 199 1908	DIODE RBV-606 LF-B
C3084	403 175 7209	ELECT	10U M	16V		D1605	407 149 0807	DIODE 1SS355 TE-17
	403 391 5508	ELECT	10U M	16V		D1606	407 190 4106	DIODE SFPL-52V
C6234	403 234 8901	CERAMIC	4P C	50V		★ D1607	407 231 2801	PHOTO COUPLE PC123YC2
C7201	403 279 0106	CERAMIC	0.1U Z	25V		D1608	407 190 4106	DIODE SFPL-52V
C7202	403 279 0106	CERAMIC	0.1U Z	25V		D1609	407 190 4106	DIODE SFPL-52V
C7203	403 279 0106	CERAMIC	0.1U Z	25V		D1610	407 244 6407	DIODE RF2001T2D
C7206	403 279 0106	CERAMIC	0.1U Z	25V			407 190 2805	DIODE YG906C2R
C7207	403 279 0106	CERAMIC	0.1U Z	25V		D1611	407 206 9824	DIODE SFPB-52V
C7208	403 279 0106	CERAMIC	0.1U Z	25V		D1612	407 007 7702	DIODE EU2A
C7209	403 279 0106	CERAMIC	0.1U Z	25V		D1613	407 075 5501	DIODE FML-12S
C7211	403 279 0106	CERAMIC	0.1U Z	25V			407 244 0702	DIODE RF601T2D
C7212	403 279 0106	CERAMIC	0.1U Z	25V			407 154 0502	DIODE YG901C2
C7213	403 279 0106	CERAMIC	0.1U Z	25V		D1623	404 047 7400	ZENER DIODE MTZJ5.6B
C7214	403 279 0106	CERAMIC	0.1U Z	25V		D1851	407 149 0807	DIODE 1SS355 TE-17
C7216	403 279 0106	CERAMIC	0.1U Z	25V		D1852	407 149 0807	DIODE 1SS355 TE-17
C7217	403 279 0106	CERAMIC	0.1U Z	25V		D3001	407 210 5403	DIODE RB551V-30 TE-17
C7218	403 279 0106	CERAMIC	0.1U Z	25V				
C7219	403 279 0106	CERAMIC	0.1U Z	25V			INITECDATES	O CIDCUITE
C7221	403 279 0106	CERAMIC	0.1U Z	25V		10001	INTEGRATED	
C7232	403 279 0106	CERAMIC	0.1U Z	25V		IC001	409 569 1907	IC LA42052-E
C7234	403 279 0106	CERAMIC	0.1U Z	25V		IC612	409 437 4702	IC L88M05TL-TL
C7265	403 393 2109	CERAMIC	4.7U K	6.3V		IC631	409 497 6302	IC BA09FP-E2
C7266	403 393 2109	CERAMIC	4.7U K	6.3V		IC641	409 550 1404 409 592 8508	IC PQ1CY1032ZP
C7269 C7271	403 393 2109 403 393 2109	CERAMIC CERAMIC	4.7U K 4.7U K	6.3V 6.3V		IC656 IC671	409 482 7505	IC BA15BC0FP IC BA25BC0FP
C7271	403 393 2109	CERAMIC	4.70 K 4.7U K	6.3V		IC676	409 588 6303	IC BA33BC0FP
C7272	403 393 2109	CERAMIC	4.70 K 4.7U K	6.3V		IC801	410 555 2105	IC TMP88PS38BFGN2TES
C7273	403 235 0607	CERAMIC	100P J	50V		IC841	409 404 7200	IC TC7SET00FU
C7298	403 279 0106	CERAMIC	0.1U Z			IC886	410 513 2901	IC CAT24WC16WI-TE13
C7279	403 277 0106	CERAMIC	0.10 Z	25V		IC1201	409 450 3102	IC NJM2535M
C7552	403 279 0106	CERAMIC	0.1U Z	25V		IC1202	409 304 6422	IC NJM2246M-TE2
C7554	403 279 0106	CERAMIC	0.1U Z	25V		IC1600	409 067 7203	IC L5431
C7557	403 279 0106	CERAMIC	0.1U Z	25V		101000	409 054 1207	IC TL431CLP-B
C7558	403 393 2109	CERAMIC	4.7U K	6.3V			409 180 2307	IC UPC1093J
C7559	403 393 2109	CERAMIC	4.7U K	6.3V		IC1601	410 554 7200	IC STR-G9628 LF1129
C8061	403 392 1202	ELECT	47U M	6.3V		IC1831	410 507 1903	IC TC74VHCT04AFT
	403 387 5307	ELECT	47U M	6.3V		IC1899	409 404 6322	IC M62320FP
						IC2001	409 611 0209	IC TC90101FG
						IC3001	409 564 4309	IC NJW1142M
	DIODES					IC7201	410 553 9007	IC EP1C6T144C7N
D612	407 149 0807	DIODE 1SS3	55 TE-17			IC7232	409 439 8906	IC TC7WH125FU
D613	407 149 0807	DIODE 1SS3	55 TE-17			IC7233	409 439 8906	IC TC7WH125FU
D614	407 228 4900	ZD UDZS33E	B-TE-17			IC7299	409 648 3907	IC EPCS1SI8NAW
D615	407 149 0807	DIODE 1SS3	55 TE-17					
D617	407 149 0807	DIODE 1SS3	55 TE-17					
D632	407 149 0807	DIODE 1SS355 TE-17						
D641	407 213 8520	DIODE SPB-G56SVR						
D642	407 149 0807	DIODE 1SS355 TE-17						
D876	407 222 6306	ZD UDZS-TE-173.9B						
	407 187 7608	ZENER DIOD	E UDZ3.9B T	E-17				

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Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
	COILS	•		TRANSISTO	PRS
★ LF1600	645 019 3873	LINE FILTER	Q002	405 014 4509	TR 2SC2412K-T-96-R
L601	645 075 0564	INDUCTOR, 33U M		405 014 4608	TR 2SC2412K-T-96-S
L606	645 073 9156	INDUCTOR, 1000U M		405 015 8724	TR 2SC2812-L6-TB
L607	645 075 7419	INDUCTOR, 390U J		405 015 8922	TR 2SC2812-L7-TB
L609	645 059 2782	INDUCTOR, 47U M		405 163 1602	TR 2SC2812N-L6-TB
L612	645 040 6430	INDUCTOR, 2.2U M		405 163 1701	TR 2SC2812N-L7-TB
L641	645 075 0564	INDUCTOR, 33U M		405 173 9803	TR 2SC3928A1R
L1201	645 040 6430	INDUCTOR, 2.2U M		405 173 9902	TR 2SC3928A1S
L1600	645 047 6556	INDUCTOR, 4.7U M	Q101	405 014 4509	TR 2SC2412K-T-96-R
L1603	610 078 5946	PIPE CORE		405 014 4608	TR 2SC2412K-T-96-S
L1604	610 078 5946	PIPE CORE		405 015 8724	TR 2SC2812-L6-TB
L1605	610 078 5946	PIPE CORE		405 015 8922	TR 2SC2812-L7-TB
L1606	610 078 5946	PIPE CORE		405 163 1602	TR 2SC2812N-L6-TB
L1607	645 047 6556	INDUCTOR, 4.7U M		405 163 1701	TR 2SC2812N-L7-TB
L1831	645 040 6430	INDUCTOR, 2.2U M		405 173 9803	TR 2SC3928A1R
L2001	645 040 6430	INDUCTOR, 2.2U M		405 173 9902	TR 2SC3928A1S
L2002	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	Q613	405 211 0007	TR 2SC5730-Q
L2003	645 040 6430	INDUCTOR, 2.2U M		405 210 9902	TR 2SC5730-R
L2004	645 059 1716	INDUCTOR, 1.5U J	Q656	405 014 4509	TR 2SC2412K-T-96-R
L2006	645 040 6430	INDUCTOR, 2.2U M		405 014 4608	TR 2SC2412K-T-96-S
L2007	645 040 6430	INDUCTOR, 2.2U M		405 015 8724	TR 2SC2812-L6-TB
L2008	645 040 6430	INDUCTOR, 2.2U M		405 015 8922	TR 2SC2812-L7-TB
L2009	645 040 6430	INDUCTOR, 2.2U M		405 163 1602	TR 2SC2812N-L6-TB
L2011	645 040 6430	INDUCTOR, 2.2U M		405 163 1701	TR 2SC2812N-L7-TB
L2012	645 040 6430	INDUCTOR, 2.2U M		405 173 9803	TR 2SC3928A1R
L2013	401 150 6001	MT-GLAZE 0.000 ZA 1/10W		405 173 9902	TR 2SC3928A1S
L2099	645 040 6430	INDUCTOR, 2.2U M	Q657	405 014 4509	TR 2SC2412K-T-96-R
L2101	645 059 1730	INDUCTOR, 15U J		405 014 4608	TR 2SC2412K-T-96-S
L2102	401 150 6001	MT-GLAZE 0.000 ZA 1/10W		405 015 8724	TR 2SC2812-L6-TB
L2121	645 059 1730	INDUCTOR, 15U J		405 015 8922	TR 2SC2812-L7-TB
L2122	401 150 6001	MT-GLAZE 0.000 ZA 1/10W		405 163 1602	TR 2SC2812N-L6-TB
L2141	645 072 1397	INDUCTOR, 8.2U J		405 163 1701	TR 2SC2812N-L7-TB
L2142	401 150 6001	MT-GLAZE 0.000 ZA 1/10W		405 173 9803	TR 2SC3928A1R
L2161	645 072 1397	INDUCTOR, 8.2U J		405 173 9902	TR 2SC3928A1S
L2162	401 150 6001	MT-GLAZE 0.000 ZA 1/10W	Q671	405 014 4509	TR 2SC2412K-T-96-R
L2181	645 072 1397	INDUCTOR, 8.2U J		405 014 4608	TR 2SC2412K-T-96-S
L2182	401 150 6001	MT-GLAZE 0.000 ZA 1/10W		405 015 8724	TR 2SC2812-L6-TB
L7261	645 036 3894	INDUCTOR, 220 OHM		405 015 8922	TR 2SC2812-L7-TB
L7262	645 036 3894	INDUCTOR, 220 OHM		405 163 1602	TR 2SC2812N-L6-TB
L7263	645 036 3894	INDUCTOR, 220 OHM		405 163 1701	TR 2SC2812N-L7-TB
L7264	645 036 3894	INDUCTOR, 220 OHM		405 173 9803	TR 2SC3928A1R
L7267	645 036 3894	INDUCTOR, 220 OHM		405 173 9902	TR 2SC3928A1S
L7268	645 036 3894	INDUCTOR, 220 OHM	Q672	405 014 4509	TR 2SC2412K-T-96-R
L7597	645 073 6407	IMPEDANCE, 100 OHM -		405 014 4608	TR 2SC2412K-T-96-S
L7598	645 073 6407	IMPEDANCE, 100 OHM -		405 015 8724	TR 2SC2812-L6-TB
L7599	645 073 6407	IMPEDANCE, 100 OHM -		405 015 8922	TR 2SC2812-L7-TB
				405 163 1602	TR 2SC2812N-L6-TB
				405 163 1701	TR 2SC2812N-L7-TB
				405 173 9803	TR 2SC3928A1R
				405 173 9902	TR 2SC3928A1S
			Q676	405 014 4509	TR 2SC2412K-T-96-R
				405 014 4608	TR 2SC2412K-T-96-S
				405 015 8724	TR 2SC2812-L6-TB
				405 015 8922	TR 2SC2812-L7-TB
				405 163 1602	TR 2SC2812N-L6-TB

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
	405 163 1701	TR 2SC2812N-L7-TB	Q1606	405 014 4509	TR 2SC2412K-T-96-R
	405 173 9803	TR 2SC3928A1R		405 014 4608	TR 2SC2412K-T-96-S
	405 173 9902	TR 2SC3928A1S		405 015 8724	TR 2SC2812-L6-TB
Q677	405 014 4509	TR 2SC2412K-T-96-R		405 015 8922	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 1602	TR 2SC2812N-L6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 173 9803	TR 2SC3928A1R
	405 163 1602	TR 2SC2812N-L6-TB		405 173 9902	TR 2SC3928A1S
	405 163 1701	TR 2SC2812N-L7-TB	Q1607	405 018 0507	TR 2SC3332-R
	405 173 9803	TR 2SC3928A1R		405 018 0606	TR 2SC3332-S
	405 173 9902	TR 2SC3928A1S	Q1608	405 014 4509	TR 2SC2412K-T-96-R
Q851	405 134 5925	TR 2SA1037AK T146 R		405 014 4608	TR 2SC2412K-T-96-S
	405 147 2205	TR 2SA1037AK T146 S		405 015 8724	TR 2SC2812-L6-TB
	405 002 0308	TR 2SA1037K-T-96-R		405 015 8922	TR 2SC2812-L7-TB
	405 002 0407	TR 2SA1037K-T-96-S		405 163 1602	TR 2SC2812N-L6-TB
	405 002 6726	TR 2SA1179-M6		405 163 1701	TR 2SC2812N-L7-TB
	405 002 6924	TR 2SA1179-M7-TB		405 173 9803	TR 2SC3928A1R
	405 163 1503	TR 2SA1179N-M6-TB		405 173 9902	TR 2SC3928A1S
	405 163 2708	TR 2SA1179N-M7-TB	Q1609	405 202 7701	TR TPC8109
	405 173 9605	TR 2SA1235A1E	Q1610	405 202 7701	TR TPC8109
	405 173 9704	TR 2SA1235A1F	Q1611	405 014 4509	TR 2SC2412K-T-96-R
Q876	405 134 5925	TR 2SA1037AK T146 R		405 014 4608	TR 2SC2412K-T-96-S
	405 147 2205	TR 2SA1037AK T146 S		405 015 8724	TR 2SC2812-L6-TB
	405 002 0308	TR 2SA1037K-T-96-R		405 015 8922	TR 2SC2812-L7-TB
	405 002 0407	TR 2SA1037K-T-96-S		405 163 1602	TR 2SC2812N-L6-TB
	405 002 6726	TR 2SA1179-M6		405 163 1701	TR 2SC2812N-L7-TB
	405 002 6924	TR 2SA1179-M7-TB		405 173 9803	TR 2SC3928A1R
	405 163 1503	TR 2SA1179N-M6-TB		405 173 9902	TR 2SC3928A1S
	405 163 2708	TR 2SA1179N-M7-TB	Q1612	405 014 4509	TR 2SC2412K-T-96-R
	405 173 9605	TR 2SA1235A1E		405 014 4608	TR 2SC2412K-T-96-S
	405 173 9704	TR 2SA1235A1F		405 015 8724	TR 2SC2812-L6-TB
Q1600	405 014 4509	TR 2SC2412K-T-96-R		405 015 8922	TR 2SC2812-L7-TB
	405 014 4608	TR 2SC2412K-T-96-S		405 163 1602	TR 2SC2812N-L6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 173 9803	TR 2SC3928A1R
	405 163 1602	TR 2SC2812N-L6-TB		405 173 9902	TR 2SC3928A1S
	405 163 1701	TR 2SC2812N-L7-TB	Q1851	405 045 8725	TR 2SK536
	405 173 9803	TR 2SC3928A1R	Q1852	405 045 8725	TR 2SK536
	405 173 9902	TR 2SC3928A1S	Q2001	405 014 4509	TR 2SC2412K-T-96-R
Q1601	405 014 4509	TR 2SC2412K-T-96-R		405 014 4608	TR 2SC2412K-T-96-S
	405 014 4608	TR 2SC2412K-T-96-S		405 015 8724	TR 2SC2812-L6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 015 8922	TR 2SC2812-L7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 163 1602	TR 2SC2812N-L6-TB
	405 163 1602	TR 2SC2812N-L6-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 163 1701	TR 2SC2812N-L7-TB		405 173 9803	TR 2SC3928A1R
	405 173 9803	TR 2SC3928A1R		405 173 9902	TR 2SC3928A1S
	405 173 9902	TR 2SC3928A1S	Q2031	405 014 4509	TR 2SC2412K-T-96-R
Q1605	405 014 4509	TR 2SC2412K-T-96-R		405 014 4608	TR 2SC2412K-T-96-S
	405 014 4608	TR 2SC2412K-T-96-S		405 015 8724	TR 2SC2812-L6-TB
	405 015 8724	TR 2SC2812-L6-TB		405 015 8922	TR 2SC2812-L7-TB
	405 015 8922	TR 2SC2812-L7-TB		405 163 1602	TR 2SC2812N-L6-TB
	405 163 1602	TR 2SC2812N-L6-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 163 1701	TR 2SC2812N-L7-TB		405 173 9803	TR 2SC3928A1R
	405 173 9803	TR 2SC3928A1R		405 173 9902	TR 2SC3928A1S
	405 173 9902	TR 2SC3928A1S			

Schematic Location	Part No.	Description	Schematic Location	Part No.	Description
Q2092	405 134 5925	TR 2SA1037AK T146 R	Q2142	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S		405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R		405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S		405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6		405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB		405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB		405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB		405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E		405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F		405 173 9704	TR 2SA1235A1F
Q2101	405 014 4509	TR 2SC2412K-T-96-R	Q2161	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S		405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB		405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB		405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB		405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R		405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S		405 173 9902	TR 2SC3928A1S
Q2102	405 134 5925	TR 2SA1037AK T146 R	Q2172	405 134 5925	TR 2SA1037AK T146 R
	405 147 2205	TR 2SA1037AK T146 S		405 147 2205	TR 2SA1037AK T146 S
	405 002 0308	TR 2SA1037K-T-96-R		405 002 0308	TR 2SA1037K-T-96-R
	405 002 0407	TR 2SA1037K-T-96-S		405 002 0407	TR 2SA1037K-T-96-S
	405 002 6726	TR 2SA1179-M6		405 002 6726	TR 2SA1179-M6
	405 002 6924	TR 2SA1179-M7-TB		405 002 6924	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB		405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB		405 163 2708	TR 2SA1179N-M7-TB
	405 173 9605	TR 2SA1235A1E		405 173 9605	TR 2SA1235A1E
	405 173 9704	TR 2SA1235A1F		405 173 9704	TR 2SA1235A1F
Q2121	405 014 4509	TR 2SC2412K-T-96-R	Q2181	405 014 4509	TR 2SC2412K-T-96-R
	405 014 4608	TR 2SC2412K-T-96-S		405 014 4608	TR 2SC2412K-T-96-S
	405 015 8724	TR 2SC2812-L6-TB		405 015 8724	TR 2SC2812-L6-TB
	405 015 8922	TR 2SC2812-L7-TB		405 015 8922	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB		405 163 1602	TR 2SC2812N-L6-TB
	405 163 1701	TR 2SC2812N-L7-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 173 9803	TR 2SC3928A1R		405 173 9803	TR 2SC3928A1R
00100	405 173 9902	TR 2SC3928A1S	00011	405 173 9902	TR 2SC3928A1S
Q2122	405 134 5925	TR 2SA1037AK T146 R	Q3011	405 014 4509	TR 2SC2412K-T-96-R
	405 147 2205	TR 2SA1037AK T146 S		405 014 4608	TR 2SC2412K-T-96-S
	405 002 0308	TR 2SA1037K-T-96-R		405 015 8724	TR 2SC2812-L6-TB
	405 002 0407	TR 2SA1037K-T-96-S		405 015 8922	TR 2SC2812-L7-TB
	405 002 6726	TR 2SA1179-M6		405 163 1602	TR 2SC2812N-L6-TB
	405 002 6924	TR 2SA1179-M7-TB TR 2SA1179N-M6-TB		405 163 1701	TR 2SC2812N-L7-TB TR 2SC3928A1R
	405 163 1503 405 163 2708	TR 2SA1179N-M7-TB		405 173 9803	TR 2SC3928A1S
			02012	405 173 9902	
	405 173 9605	TR 2SA1235A1E TR 2SA1235A1F	Q3012	405 014 4509	TR 2SC2412K-T-96-R
Q2141	405 173 9704			405 014 4608	TR 2SC2412K-T-96-S
Q2141	405 014 4509 405 014 4608	TR 2SC2412K-T-96-R TR 2SC2412K-T-96-S		405 015 8724 405 015 8922	TR 2SC2812-L6-TB TR 2SC2812-L7-TB
	405 015 8724	TR 2SC2412-L6-TB		405 163 1602	TR 2SC2812N-L6-TB
	405 015 8922	TR 2SC2812-L0-TB		405 163 1701	TR 2SC2812N-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB		405 173 9803	TR 2SC3928A1R
	405 163 1701	TR 2SC2812N-L7-TB		405 173 9902	TR 2SC3928A1S
	405 173 9803	TR 2SC3928A1R	Q3031	405 014 4509	TR 2SC2412K-T-96-R
	405 173 9902	TR 2SC3928A1S	Q303 I	405 014 4608	TR 2SC2412K-T-96-S
	TUU 110 17UZ	IN 2000/20A10		405 015 8724	TR 2SC2812-L6-TB
				405 015 8922	TR 2SC2812-L7-TB
				TOO 010 0722	111 23020 12 ⁻ L/-1D

Schematic Location	Part No.	Description		Schematic Location	Part No.	Des	scription
Q3031(Con	t) 405 163 1602	TR 2SC2812N-L6-TB		RB2001	645 037 0663	R-NETWORK	22X4 0.063W
	405 163 1701	TR 2SC2812N-L7-TB			645 021 4943	R-NETWORK	22X4 1/16W
	405 173 9803	TR 2SC3928A1R		RB2002	645 037 0663	R-NETWORK	22X4 0.063W
	405 173 9902	TR 2SC3928A1S			645 021 4943	R-NETWORK	22X4 1/16W
Q3032	405 014 4509	TR 2SC2412K-T-96-R		RB2003	645 037 0663	R-NETWORK	22X4 0.063W
	405 014 4608	TR 2SC2412K-T-96-S			645 021 4943	R-NETWORK	22X4 1/16W
	405 015 8724	TR 2SC2812-L6-TB		RB2004	645 037 0663	R-NETWORK	22X4 0.063W
	405 015 8922	TR 2SC2812-L7-TB			645 021 4943	R-NETWORK	22X4 1/16W
	405 163 1602	TR 2SC2812N-L6-TB		RB7201	645 037 0663	R-NETWORK	22X4 0.063W
	405 163 1701	TR 2SC2812N-L7-TB			645 021 4943	R-NETWORK	22X4 1/16W
	405 173 9803	TR 2SC3928A1R		RB7202	645 037 0663		22X4 0.063W
	405 173 9902	TR 2SC3928A1S			645 021 4943	R-NETWORK	
Q7289	405 014 4509	TR 2SC2412K-T-96-R		RB7203	645 037 0663		22X4 0.063W
	405 014 4608	TR 2SC2412K-T-96-S			645 021 4943	R-NETWORK	
	405 015 8724	TR 2SC2812-L6-TB		RB7204	645 037 0663		22X4 0.063W
	405 015 8922	TR 2SC2812-L7-TB			645 021 4943	R-NETWORK	
	405 163 1602	TR 2SC2812N-L6-TB		R001	401 256 7605	MT-GLAZE	3.9K JA 1/10W
	405 163 1701	TR 2SC2812N-L7-TB		R002	401 152 3206	MT-GLAZE	330 JA 1/10W
	405 173 9803	TR 2SC3928A1R		R004	401 256 6301	MT-GLAZE	47K JA 1/10W
	405 173 9902	TR 2SC3928A1S		R021	401 150 6209	MT-GLAZE	1K JA 1/10W
Q8061	405 014 4509	TR 2SC2412K-T-96-R		R022	401 256 7605	MT-GLAZE	3.9K JA 1/10W
	405 014 4608	TR 2SC2412K-T-96-S		R023	401 150 6209	MT-GLAZE	1K JA 1/10W
	405 015 8724	TR 2SC2812-L6-TB		R024	401 256 7605	MT-GLAZE	3.9K JA 1/10W
	405 015 8922	TR 2SC2812-L7-TB		R026	401 184 2000	MT-GLAZE	2.2 JA 1/2W
	405 163 1602	TR 2SC2812N-L6-TB		R027	401 184 2000	MT-GLAZE	2.2 JA 1/2W
	405 163 1701	TR 2SC2812N-L7-TB		R028	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
	405 173 9803	TR 2SC3928A1R		R029	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
	405 173 9902	TR 2SC3928A1S		R101	401 255 6500	MT-GLAZE	100 JA 1/10W
				R102	401 255 6500	MT-GLAZE	100 JA 1/10W
				R103	401 255 6500	MT-GLAZE	100 JA 1/10W
NOTES:	tion of the Deci	ator on follows:		R104	401 255 6500	MT-GLAZE	100 JA 1/10W
Read descrip	otion of the Resis	stor as ronows:		R111	401 162 3609	MT-GLAZE	470 JA 1/10W
(Example)				R112	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
CARBON	4.7K J A 1/4			R113	401 256 4109	MT-GLAZE	56 JA 1/10W
	\top T T $^-$	L Rated Wattage		R121	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
				R123	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
		erformance Symbols:		R127	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
		General BNon-flammableLow noise		R129	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
		ther Temperature coefficient		R131	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
	Lolerar	nce Symbols:		R133 R137	401 150 6001 401 150 6001	MT-GLAZE MT-GLAZE	0.000 ZA 1/10W 0.000 ZA 1/10W
		5% B0.1% C25%		R137 R139	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
		% F1% G2%		R606	401 256 5601	MT-GLAZE	47 JA 1/10W
	J5% P+5 -	K10% M20%		R607	401 255 8702	MT-GLAZE	22 JA 1/10W
	F+5 -	1376		R608	401 256 1702	MT-GLAZE	33K JA 1/10W
	Rated Value			R620	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
	K1,000 M	1,000,000		R622	401 035 4108	MT-GLAZE	0.000 ZA 1/10W 0.000 ZA 1/8W
	erial:			R626	401 035 4108	MT-GLAZE	0.000 ZA 1/8W
	BON Caı FILMMe			R647	401 264 2807	MT-GLAZE	1.2K FA 1/10W
	DE-MTOx			R648	401 264 1800	MT-GLAZE	1K FA 1/10W
SOL	.IDCo	mposition		R649	401 264 7505	MT-GLAZE	2.7K FA 1/10W
MT-	GLAZEMe	tal Glaze		R651	401 035 4108	MT-GLAZE	0.000 ZA 1/8W
	E WOUNDWii AMIC RES Cei			R656	401 162 3005	MT-GLAZE	22K JA 1/10W
	SIBLE RES Fus			R657	401 162 3005	MT-GLAZE	22K JA 1/10W 22K JA 1/10W
				R671	401 162 3005	MT-GLAZE	22K JA 1/10W 22K JA 1/10W
				R671	401 162 3005	MT-GLAZE	22K JA 1/10W 22K JA 1/10W
				1072	TO 1 102 JUUJ	WII OLALL	ZZNJA I/IUW

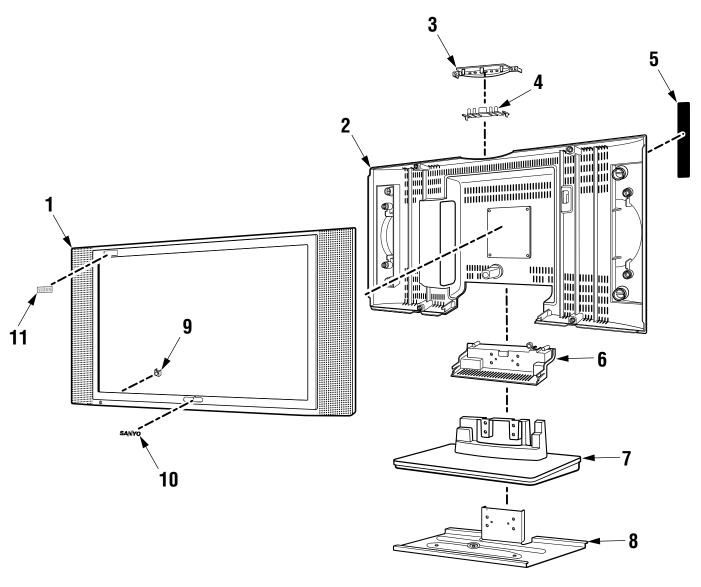
Schematic Location	Part No.	Des	scription]	Schematic Location	Part No.	De	escription
R677	401 162 3005	MT-GLAZE	22K JA 1/10W	- ·	R856	401 256 3607	MT-GLAZE	15K JA 1/10W
R678	401 162 3005	MT-GLAZE	22K JA 1/10W		R862	401 256 7605	MT-GLAZE	3.9K JA 1/10W
R691	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R863	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R692	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R876	401 162 3609	MT-GLAZE	470 JA 1/10W
R693	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R877	401 162 3005	MT-GLAZE	22K JA 1/10W
R694	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R878	401 150 5905	MT-GLAZE	10K JA 1/10W
R696	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R886	401 162 3708	MT-GLAZE	4.7K JA 1/10W
R697	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R887	401 162 3708	MT-GLAZE	4.7K JA 1/10W
R698	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R888	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R699	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R889	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R801	401 255 6500	MT-GLAZE	100 JA 1/10W		R894	401 162 3708	MT-GLAZE	4.7K JA 1/10W
R802	401 255 6500	MT-GLAZE	100 JA 1/10W		R1001	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R803	401 255 6500	MT-GLAZE	100 JA 1/10W		R1002	401 256 2709	MT-GLAZE	75 JA 1/10W
R804	401 255 6500	MT-GLAZE	100 JA 1/10W		R1003	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R805	401 255 6500	MT-GLAZE	100 JA 1/10W		R1004	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R806	401 255 6500	MT-GLAZE	100 JA 1/10W		R1006	401 256 2709	MT-GLAZE	75 JA 1/10W
R807	401 255 6500	MT-GLAZE	100 JA 1/10W		R1007	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R808	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R1008	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R809	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R1009	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R810	401 255 6500	MT-GLAZE	100 JA 1/10W		R1011	401 256 2709	MT-GLAZE	75 JA 1/10W
R811	401 255 6500	MT-GLAZE	100 JA 1/10W		R1012	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R812	401 255 6500	MT-GLAZE	100 JA 1/10W		R1013	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R813	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R1014	401 150 5806	MT-GLAZE	100K JA 1/10W
R814	401 255 6500	MT-GLAZE	100 JA 1/10W		R1016	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R815	401 255 6500	MT-GLAZE	100 JA 1/10W		R1017	401 150 5806	MT-GLAZE	100K JA 1/10W
R816	401 255 6500	MT-GLAZE	100 JA 1/10W		R1018	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R818 R819	401 162 2909 401 162 2909	MT-GLAZE	220 JA 1/10W		R1019 R1021	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R820	401 162 2909	MT-GLAZE MT-GLAZE	220 JA 1/10W 220 JA 1/10W		R1021 R1022	401 256 2709 401 150 6001	MT-GLAZE MT-GLAZE	75 JA 1/10W 0.000 ZA 1/10W
R821	401 255 6500	MT-GLAZE	100 JA 1/10W		R1022	401 150 5806	MT-GLAZE	100K JA 1/10W
R822	401 255 6500	MT-GLAZE	100 JA 1/10W		R1023	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R823	401 255 6500	MT-GLAZE	100 JA 1/10W		R1024	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R824	401 255 6500	MT-GLAZE	100 JA 1/10W		R1027	401 150 5806	MT-GLAZE	100K JA 1/10W
R826	401 255 6500	MT-GLAZE	100 JA 1/10W		R1028	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R829	401 255 6500	MT-GLAZE	100 JA 1/10W		R1029	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R830	401 162 3005	MT-GLAZE	22K JA 1/10W		R1031	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R831	401 255 6500	MT-GLAZE	100 JA 1/10W		R1032	401 256 2709	MT-GLAZE	75 JA 1/10W
R832	401 256 7308	MT-GLAZE	6.8K JA 1/10W		R1033	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R833	401 255 6500	MT-GLAZE	100 JA 1/10W		R1034	401 256 2709	MT-GLAZE	75 JA 1/10W
R834	401 255 6500	MT-GLAZE	100 JA 1/10W		R1036	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R835	401 150 5905	MT-GLAZE	10K JA 1/10W		R1037	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R836	401 255 6500	MT-GLAZE	100 JA 1/10W		R1038	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R837	401 255 6500	MT-GLAZE	100 JA 1/10W		R1039	401 256 2709	MT-GLAZE	75 JA 1/10W
R838	401 150 6209	MT-GLAZE	1K JA 1/10W		R1041	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R839	401 255 6500	MT-GLAZE	100 JA 1/10W		R1042	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R841	401 255 6500	MT-GLAZE	100 JA 1/10W		R1043	401 150 5806	MT-GLAZE	100K JA 1/10W
R842	401 255 6500	MT-GLAZE	100 JA 1/10W		R1044	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R843	401 255 6500	MT-GLAZE	100 JA 1/10W		R1046	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R844	401 255 6500	MT-GLAZE	100 JA 1/10W		R1047	401 150 5806	MT-GLAZE	100K JA 1/10W
R845	401 150 5905	MT-GLAZE	10K JA 1/10W		R1201	401 255 6005	MT-GLAZE	1M JA 1/10W
R846	401 150 5905	MT-GLAZE	10K JA 1/10W		R1202	401 255 6005	MT-GLAZE	1M JA 1/10W
R847	401 150 5905	MT-GLAZE	10K JA 1/10W		R1203	401 255 6005	MT-GLAZE	1M JA 1/10W
R848	401 150 5905	MT-GLAZE	10K JA 1/10W		R1204	401 255 6005	MT-GLAZE	1M JA 1/10W
R851	401 162 3104	MT-GLAZE	3.3K JA 1/10W		R1206	401 255 6005	MT-GLAZE	1M JA 1/10W
R853	401 162 3104	MT-GLAZE	3.3K JA 1/10W		R1207	401 255 6005	MT-GLAZE	1M JA 1/10W
R854	401 256 3607	MT-GLAZE	15K JA 1/10W		R1208	401 150 6001	MT-GLAZE	0.000 ZA 1/10W

Schematic Location	Part No.	Des	cription		Schematic Location	Part No.	De	scription
R1209	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1665	401 256 6301	MT-GLAZE	47K JA 1/10W
R1211	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1666	401 162 3005	MT-GLAZE	22K JA 1/10W
R1212	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1667	401 162 3005	MT-GLAZE	22K JA 1/10W
R1213	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1670	401 238 1003	MT-GLAZE	120K JA 1/2W
R1214	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1671	401 238 1003	MT-GLAZE	120K JA 1/2W
R1216	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1831	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1217	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1832	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1218	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1834	401 162 2206	MT-GLAZE	10 JA 1/10W
R1219	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1835	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1221	401 150 6001	MT-GLAZE	0.000 ZA 1	/10W	R1838	401 150 6209	MT-GLAZE	1K JA 1/10W
R1601	401 150 5905	MT-GLAZE	10K JA 1	/10W	R1850	401 162 3708	MT-GLAZE	4.7K JA 1/10W
R1602	401 256 6301	MT-GLAZE	47K JA 1	/10W	R1851	401 162 3708	MT-GLAZE	4.7K JA 1/10W
R1603	401 150 5905	MT-GLAZE	10K JA 1	/10W	R1852	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1604	401 256 6301	MT-GLAZE	47K JA 1	/10W	R1853	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1605	401 007 5805	CARBON	120K JA	1/2W	R1854	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1606	401 007 5805	CARBON	120K JA	1/2W	R1855	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1607	401 007 5805	CARBON	120K JA	1/2W	R1856	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1608	401 020 2904	CARBON	47K JA	1/4W	R1857	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1609	408 037 5508	THERMISTER	NTH11D5	R0LC	R1858	401 162 2800	MT-GLAZE	1.8K JA 1/10W
R1610	401 021 4105	CARBON	56K JA	1/4W	R1859	401 162 2800	MT-GLAZE	1.8K JA 1/10W
R1611	401 010 3805	CARBON	4.7K JA	1/2W	R1881	401 150 5905	MT-GLAZE	10K JA 1/10W
R1612	401 264 9301	MT-GLAZE	3.3K FA 1	/10W	R1882	401 150 5905	MT-GLAZE	10K JA 1/10W
R1613	401 265 5609	MT-GLAZE	820 FA 1	/10W	R1883	401 150 5905	MT-GLAZE	10K JA 1/10W
R1614	401 264 1800	MT-GLAZE	1K FA 1	/10W	R1884	401 150 5905	MT-GLAZE	10K JA 1/10W
R1615	401 162 3104	MT-GLAZE	3.3K JA 1	/10W	R1886	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1616	401 150 5905	MT-GLAZE	10K JA 1	/10W	R1887	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1617	401 011 2302	CARBON	6.8K JA	1/2W	R1888	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1619	401 162 2800	MT-GLAZE	1.8K JA 1	/10W	R1889	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
★ R1620	402 001 8106	FUSIBLE	680 J-		R1891	401 255 6500	MT-GLAZE	100 JA 1/10W
R1621	401 011 1107	CARBON		1/2W	R1892	401 255 6500	MT-GLAZE	100 JA 1/10W
R1622	401 006 9309	CARBON	10 JA		R1896	401 162 3005	MT-GLAZE	22K JA 1/10W
R1623	401 064 1406	OXIDE-MT	0.33 JA	2W	R1898	401 162 3005	MT-GLAZE	22K JA 1/10W
R1624	401 064 1406	OXIDE-MT	0.33 JA	2W	R1901	401 150 6209	MT-GLAZE	1K JA 1/10W
R1626	401 068 5509	OXIDE-MT	47K JA	2W	R1902	401 256 0408	MT-GLAZE	12K JA 1/10W
★ R1628	402 000 1603	SOLID	3.3M MA		R1903	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
	402 088 1502	RESISTER	3.3M JA		R1904	401 150 6209	MT-GLAZE	1K JA 1/10W
	402 090 2108	RESISTER	3.3M JA		R1906	401 256 5908	MT-GLAZE	2.7K JA 1/10W
R1629	401 066 6102	OXIDE-MT	220 JA	2W	R1907	401 162 3104	MT-GLAZE	3.3K JA 1/10W
R1635	401 150 6209	MT-GLAZE	1K JA 1		R1908	401 256 5304	MT-GLAZE	56K JA 1/10W
R1637	401 150 6001	MT-GLAZE	0.000 ZA 1		R1961	401 255 6500	MT-GLAZE	100 JA 1/10W
R1638	401 150 6001	MT-GLAZE	0.000 ZA 1		R1962	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1640	401 150 6001	MT-GLAZE	0.000 ZA 1		R1964	401 255 6500	MT-GLAZE	100 JA 1/10W
R1641	401 150 6001	MT-GLAZE	0.000 ZA 1		R2001	401 256 5809	MT-GLAZE	270K JA 1/10W
R1642	401 150 6001	MT-GLAZE	0.000 ZA 1		R2002	401 255 6500	MT-GLAZE	100 JA 1/10W
R1643	401 150 6001	MT-GLAZE	0.000 ZA 1		R2004	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1644	401 150 6001	MT-GLAZE	0.000 ZA 1		R2006	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R1645	401 150 5905	MT-GLAZE	10K JA 1		R2009	401 256 5601	MT-GLAZE	47 JA 1/10W
R1647	401 150 5905	MT-GLAZE	10K JA 1		R2016	401 256 3805	MT-GLAZE	1.5K JA 1/10W
R1649	401 150 5905	MT-GLAZE	10K JA 1		R2017	401 162 2404	MT-GLAZE	1.2K JA 1/10W
R1651	401 150 5905	MT-GLAZE	10K JA 1		R2021	401 255 8702	MT-GLAZE	22 JA 1/10W
R1654	401 162 3005	MT-GLAZE	22K JA 1		R2022	401 255 8702	MT-GLAZE	22 JA 1/10W
R1655	401 058 9005	OXIDE-MT	1.2K JA	1W	R2023	401 255 8702	MT-GLAZE	22 JA 1/10W
R1656	401 058 9005	OXIDE-MT	1.2K JA	1W	R2024	401 255 8702	MT-GLAZE	22 JA 1/10W
R1661	401 150 5905	MT-GLAZE	10K JA 1		R2031	401 150 5905	MT-GLAZE	10K JA 1/10W
R1662	401 150 5905	MT-GLAZE	10K JA 1		R2032	401 150 5905	MT-GLAZE	10K JA 1/10W
R1664	401 020 2003	CARBON	4.7K JA	1/4VV	R2033	401 150 5905	MT-GLAZE	10K JA 1/10W

Schematic Location	Part No.	Des	scription		Schematic Location	Part No.	De	escription
R2101	401 256 6004	MT-GLAZE	27K JA 1/10W	. '	R3032	401 150 5806	MT-GLAZE	100K JA 1/10W
R2102	401 150 5905	MT-GLAZE	10K JA 1/10W		R3033	401 150 5905	MT-GLAZE	10K JA 1/10W
R2103	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R3034	401 150 5905	MT-GLAZE	10K JA 1/10W
R2106	401 150 6209	MT-GLAZE	1K JA 1/10W		R7201	401 256 0002	MT-GLAZE	120 JA 1/10W
R2107	401 256 6905	MT-GLAZE	680 JA 1/10W		R7202	401 256 0002	MT-GLAZE	120 JA 1/10W
R2108	401 150 6100	MT-GLAZE	2.2K JA 1/10W		R7203	401 162 2701	MT-GLAZE	180 JA 1/10W
R2109	401 256 3805	MT-GLAZE	1.5K JA 1/10W		R7206	401 256 0002	MT-GLAZE	120 JA 1/10W
R2113	401 256 3805	MT-GLAZE	1.5K JA 1/10W		R7207	401 256 0002	MT-GLAZE	120 JA 1/10W
R2114	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7208	401 162 2701	MT-GLAZE	180 JA 1/10W
R2121	401 256 6004	MT-GLAZE	27K JA 1/10W		R7216	401 255 8702	MT-GLAZE	22 JA 1/10W
R2122	401 150 5905	MT-GLAZE	10K JA 1/10W		R7217	401 255 8702	MT-GLAZE	22 JA 1/10W
R2123	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7218	401 255 8702	MT-GLAZE	22 JA 1/10W
R2126	401 150 6209	MT-GLAZE	1K JA 1/10W		R7219	401 255 8702	MT-GLAZE	22 JA 1/10W
R2127	401 256 6905	MT-GLAZE	680 JA 1/10W		R7220TM	401 024 7400	CARBON	10K JA 1/6W
R2128	401 150 6100	MT-GLAZE	2.2K JA 1/10W		R7222	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R2133	401 256 3805	MT-GLAZE	1.5K JA 1/10W		R7223	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R2134	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7224	401 150 5905	MT-GLAZE	10K JA 1/10W
R2141	401 256 6004	MT-GLAZE	27K JA 1/10W		R7226	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R2142	401 150 5905	MT-GLAZE	10K JA 1/10W		R7231	401 256 0002	MT-GLAZE	120 JA 1/10W
R2143	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7232	401 256 0002	MT-GLAZE	120 JA 1/10W
R2146	401 150 6209	MT-GLAZE	1K JA 1/10W		R7233	401 162 2701	MT-GLAZE	180 JA 1/10W
R2147	401 162 4002	MT-GLAZE	560 JA 1/10W		R7236	401 256 0002	MT-GLAZE	120 JA 1/10W
R2148	401 150 6100	MT-GLAZE	2.2K JA 1/10W		R7237	401 256 0002	MT-GLAZE	120 JA 1/10W
R2149	401 256 3805	MT-GLAZE	1.5K JA 1/10W		R7238	401 162 2701	MT-GLAZE	180 JA 1/10W
R2153	401 256 3805	MT-GLAZE	1.5K JA 1/10W		R7241	401 256 0002	MT-GLAZE	120 JA 1/10W
R2154	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7242	401 256 0002	MT-GLAZE	120 JA 1/10W
R2161	401 256 6004	MT-GLAZE	27K JA 1/10W		R7243	401 162 2701	MT-GLAZE	180 JA 1/10W
R2162	401 150 5905	MT-GLAZE	10K JA 1/10W		R7246	401 255 8702	MT-GLAZE	22 JA 1/10W
R2163	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7247	401 255 8702	MT-GLAZE	22 JA 1/10W
R2165	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7248	401 255 8702	MT-GLAZE	22 JA 1/10W
R2166	401 150 6100	MT-GLAZE	2.2K JA 1/10W		R7249	401 255 8702	MT-GLAZE	22 JA 1/10W
R2167	401 256 6905	MT-GLAZE	680 JA 1/10W		R7251	401 255 8702	MT-GLAZE	22 JA 1/10W
R2168	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7252	401 255 8702	MT-GLAZE	22 JA 1/10W
R2173	401 256 3805	MT-GLAZE	1.5K JA 1/10W		R7253	401 255 9006	MT-GLAZE	82 JA 1/10W
R2174	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7254	401 255 8702	MT-GLAZE	22 JA 1/10W
R2181	401 256 6004	MT-GLAZE	27K JA 1/10W		R7256	401 255 8702	MT-GLAZE	22 JA 1/10W
R2182	401 150 5905	MT-GLAZE	10K JA 1/10W		R7261	401 162 2909	MT-GLAZE	220 JA 1/10W
R2183	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7262	401 162 2909	MT-GLAZE	220 JA 1/10W
R2186	401 150 6100	MT-GLAZE	2.2K JA 1/10W		R7263	401 162 2909	MT-GLAZE	220 JA 1/10W
R2187	401 256 6905	MT-GLAZE	680 JA 1/10W		R7264	401 150 6209	MT-GLAZE	1K JA 1/10W
R2188	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7266	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R2193	401 256 3805	MT-GLAZE	1.5K JA 1/10W		R7267	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
R2194	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7268	401 255 8702	MT-GLAZE	22 JA 1/10W
R3001	401 255 6500	MT-GLAZE	100 JA 1/10W		R7269	401 255 8702	MT-GLAZE	22 JA 1/10W
R3002 R3011	401 255 6500	MT-GLAZE	100 JA 1/10W		R7272 R7273	401 255 8702	MT-GLAZE	22 JA 1/10W
R3011	401 256 0309	MT-GLAZE	820 JA 1/10W		R7273 R7274	401 255 8702	MT-GLAZE	22 JA 1/10W
R3012 R3013	401 256 0309 401 150 5806	MT-GLAZE MT-GLAZE	820 JA 1/10W 100K JA 1/10W		R7274 R7281	645 025 7797 401 255 8702	INDUCTOR MT-GLAZE	120 OHM 22 JA 1/10W
R3013			100K JA 1/10W					
R3014 R3018	401 150 5806 401 150 6001	MT-GLAZE MT-GLAZE	0.000 ZA 1/10W		R7282 R7288	401 255 8702 401 150 5905	MT-GLAZE MT-GLAZE	22 JA 1/10W 10K JA 1/10W
R3016 R3019	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7289	401 150 5905	MT-GLAZE	10K JA 1/10W
R3019 R3021	401 162 4101	MT-GLAZE	5.6K JA 1/10W		R7289 R7296	401 150 5905	MT-GLAZE	10K JA 1/10W 10K JA 1/10W
R3021 R3022	401 162 4101	MT-GLAZE	5.6K JA 1/10W		R7290 R7297	401 150 5905	MT-GLAZE	10K JA 1/10W
R3022 R3023	401 256 4109	MT-GLAZE	5.6K JA 1/10W 56 JA 1/10W		R7297 R7298	401 150 5905	MT-GLAZE	10K JA 1/10W
R3023	401 256 4109	MT-GLAZE	56 JA 1/10W		R7299	401 150 5905	MT-GLAZE	10K JA 1/10W
R3024	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		R7301	401 150 6001	MT-GLAZE	0.000 ZA 1/10W
1,0001	101 100 0001	WII OLIVEL	5.555 ZIV 1/10VV		117001	101 100 0001	WII OLIVEL	5.555 ZA 1/10VV

Cohomotic		1		1	Schematic	1	
Schematic Location	Part No.	De	scription		Location	Part No.	Description
R7302	401 150 6001	MT-GLAZE	0.000 ZA 1/10W	-		SWITCHES	
R7303	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		SW1901	645 026 2791	SWITCH, PUSH 1P-1TX1
R7304	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		SW1902	645 026 2791	SWITCH, PUSH 1P-1TX1
R7305	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		SW1903	645 026 2791	SWITCH, PUSH 1P-1TX1
R7306	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		SW1904	645 026 2791	SWITCH, PUSH 1P-1TX1
R7307	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		SW1906	645 026 2791	SWITCH, PUSH 1P-1TX1
R7308	401 150 6001	MT-GLAZE	0.000 ZA 1/10W				
R7309	401 150 6001	MT-GLAZE	0.000 ZA 1/10W				
R7310	401 150 6001	MT-GLAZE	0.000 ZA 1/10W			MISCELLAN	EOUS
R7596	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		A002	610 320 1085	ASSY, PWB, POWER
R7597	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		★ A101	645 067 2064	TUNER, TU/IF/DEC
R8001	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		A1101	610 320 1047	ASSY, PWB, MAIN, N2TE
R8002	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		A1102	610 320 1054	ASSY, PWB, CONTROL, N2TE
R8003	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		A1103	610 320 1061	ASSY, PWB, RC, N2TE
R8004	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		A1961	645 075 9734	UNIT, REMOCON, RECEIVER
R8005	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		★ EL901	645 075 4999	LCD (V230W1-L02)
R8061	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		★ F1600	423 022 2102	FUSE 250V 4A
R8062	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		F1600A	645 006 4760	HOLDER, FUSE
R8063	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		F1600B	645 006 4760	HOLDER, FUSE
R8064	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		K1001	652 001 4749	SOCKET, DIN 4P
R8065	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		K1002	652 001 4787	JACK, RCA-6
R8066	401 152 3206	MT-GLAZE	330 JA 1/10W		K1003	652 001 4763	JACK, RCA-1
R8086	401 255 6500	MT-GLAZE	100 JA 1/10W		K1004	652 001 4770	JACK, RCA-4
R8087	401 255 6500	MT-GLAZE	100 JA 1/10W		K1005F	652 001 5395	JACK, RCA-2
R8088	401 255 6500	MT-GLAZE	100 JA 1/10W		SP901	652 001 3438	SPEAKER, 8
R8089	401 255 6500	MT-GLAZE	100 JA 1/10W			652 001 3476	SPEAKER, 8
R8092	401 255 6500	MT-GLAZE	100 JA 1/10W		SP902	652 001 3438	SPEAKER, 8
R8094	401 255 6500	MT-GLAZE	100 JA 1/10W			652 001 3476	SPEAKER, 8
R8096	401 255 6500	MT-GLAZE	100 JA 1/10W		★ T1601	645 075 2100	TRANS, POWER, PULSE
R8097	401 255 6500	MT-GLAZE	100 JA 1/10W		★ VA1600	408 018 9808	VARISTOR ENC271D-14AS
R8098	401 150 6001	MT-GLAZE	0.000 ZA 1/10W		★ W1600	645 075 4647	CORD, POWER-2
						645 075 4654	CORD, POWER-2
					X801	645 053 8810	OSC, CERAMIC 16.0MHZ
	SURGE-ABS				X2001	645 066 4069	OSC, CRYSTAL 42MHZ
SC1001	645 076 3502	SURGE-ABS(
SC1002	645 076 3502	SURGE-ABS(
SC1003	645 076 3502	SURGE-ABS(
SC1901	645 076 3502	SURGE-ABS(
SC1902	645 045 7449	SURGE-ABS(
SC1903	645 045 7449	SURGE-ABS(
SC1904	645 076 3502	SURGE-ABS(NKRFK				

CABINET PARTS LIST



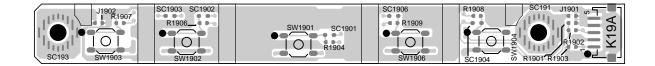
CABINET PARTS LIST

ACCESSORY PARTS LIST

KEY NO.	PARTS NO.	DESCRIPTION	KEY NO.	PARTS NO.	DESCRIPTION	
1	610 320 2709	CABINET FRONT		610 320 3133	OWNER'S MANUAL	
2	610 320 2716	CABINET BACK		645 075 1127	ASSY, REMOCON	
3	610 320 2891	PANEL TOP-N2TE		610 320 2006	RC BATTERY LID	
4	610 312 3301	BUTTON-N2HE				
5	610 320 2761	DEC AV SHEET-N2TE				
6	610 320 2730	COVER BTM-N2TE				
7	610 320 2969	STAND TOP-N2TE				
8	610 320 2952	STAND BASE-N2TE				
9	610 320 2747	DEC RC-N2TE				
10	645 066 7213	BADGE, SANYO*35.0X7.5L35.0				
11	610 320 2754	DEC SHEET VIZON-N2TE				

COMPONENT AND TESTPOINT LOCATIONS

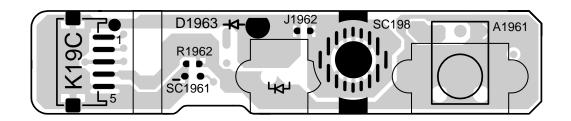
CONTROL BOARD PART SIDE



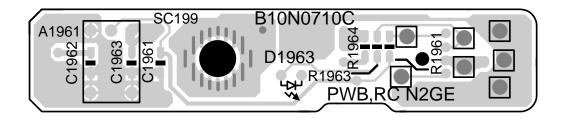
CONTROL BOARD FOIL SIDE



RC BOARD PART SIDE

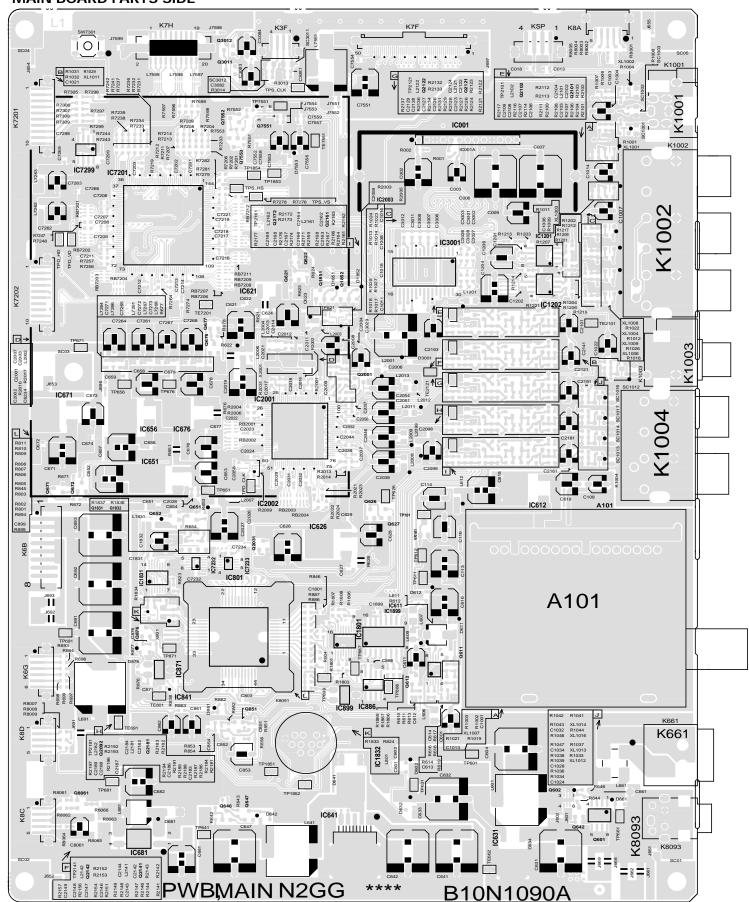


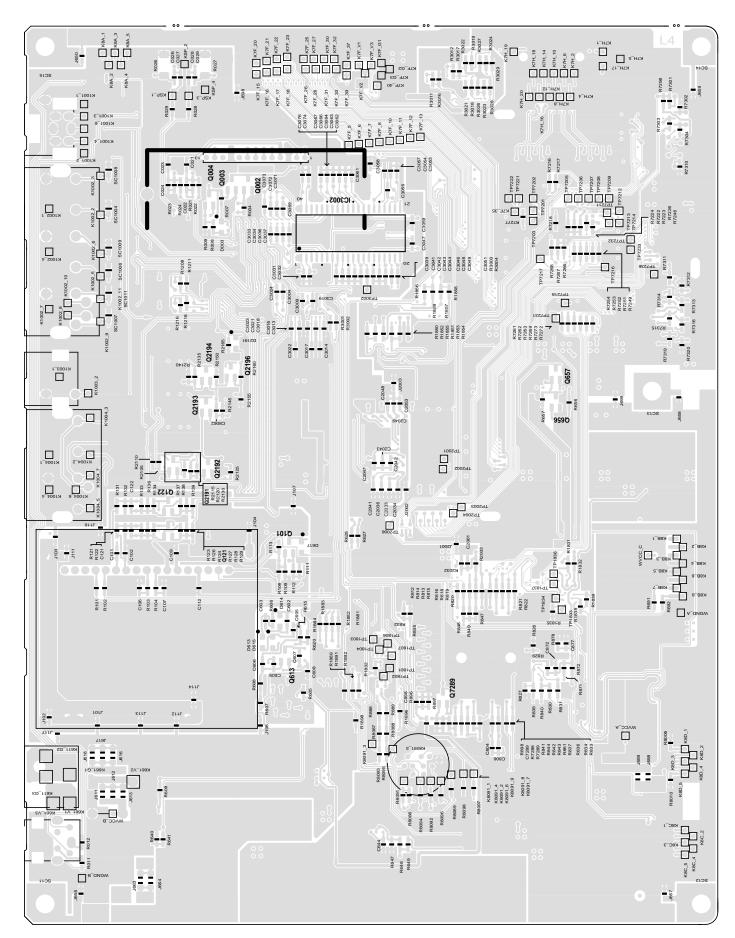
RC BOARD FOIL SIDE



COMPONENT AND TESTPOINT LOCATIONS (Cont.)

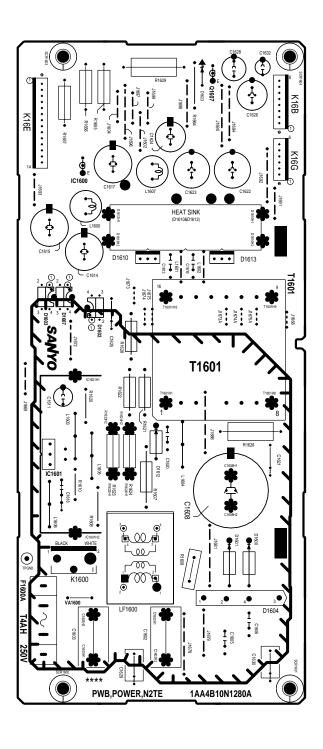
MAIN BOARD PARTS SIDE

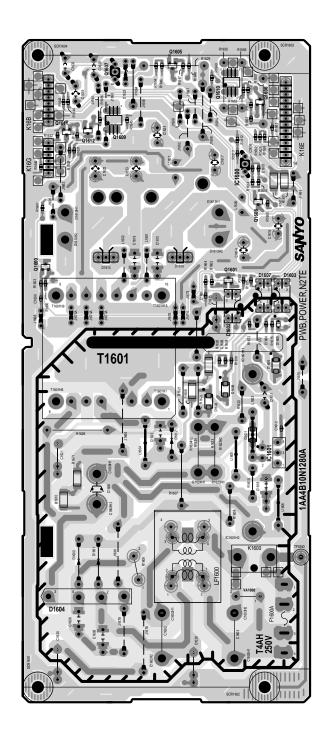




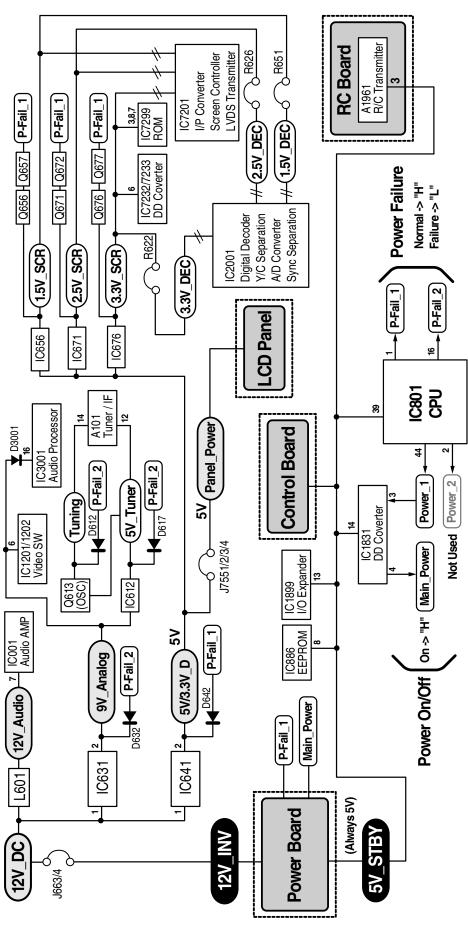
COMPONENT AND TESTPOINT LOCATIONS (Cont.)

POWER BOARD PARTS SIDE

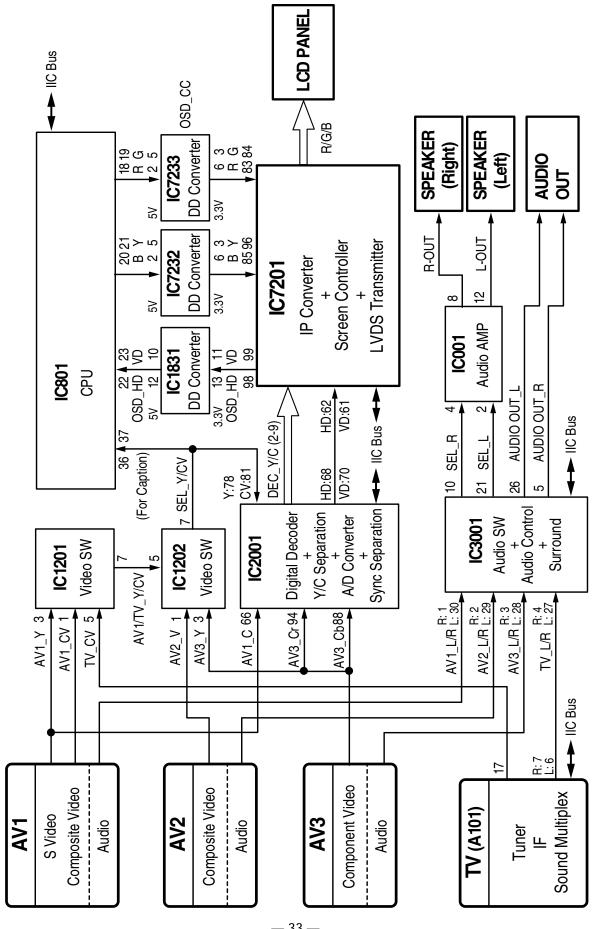




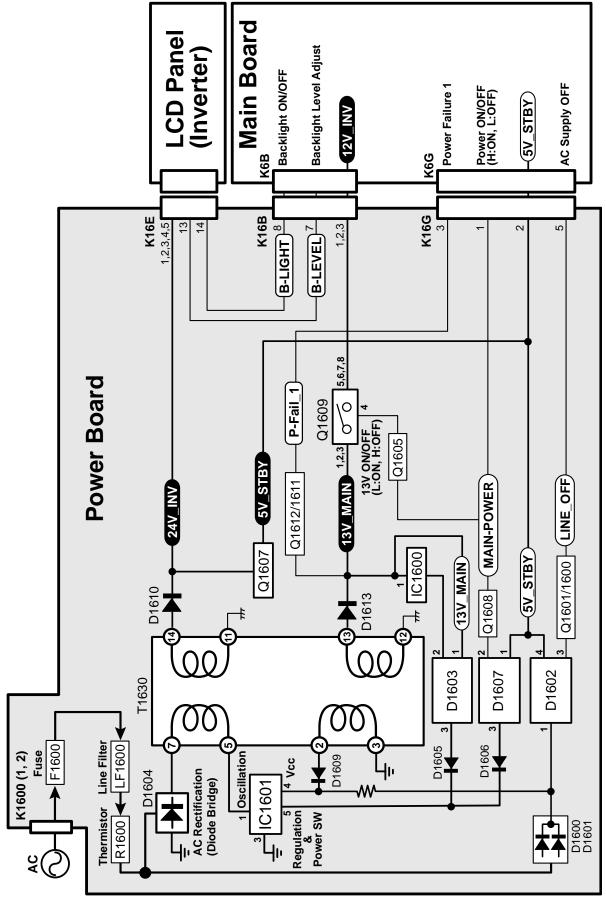
BLOCK DIAGRAM POWER LINES



BLOCK DIAGRAM SIGNAL LINES

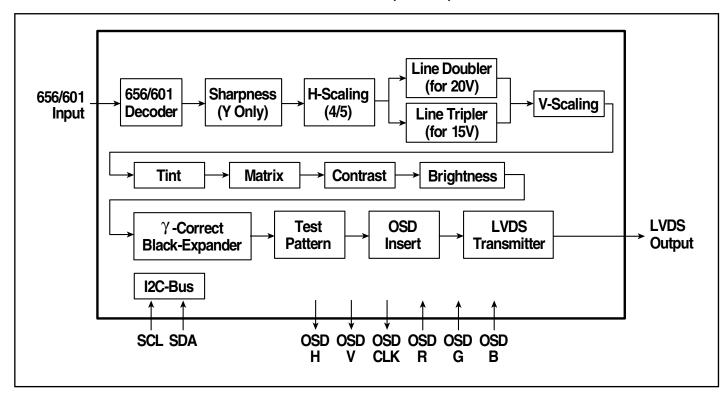


BLOCK DIAGRAM POWER BOARD

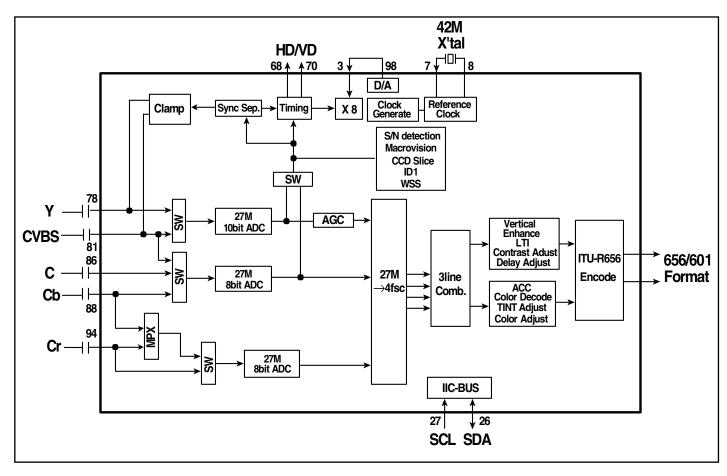


IC BLOCK DIAGRAMS

IP Converter/Screen Controller/LVDS Transmitter (IC7201)

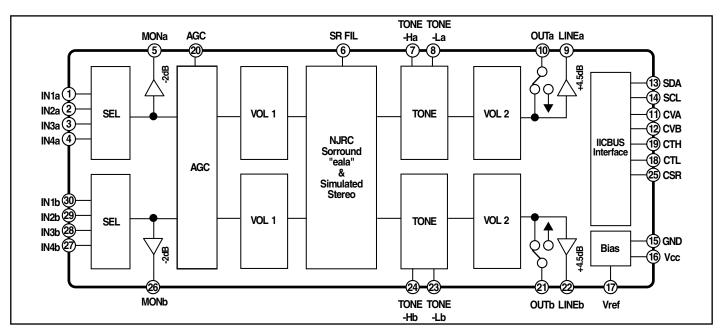


Digital Decoder (IC2001)

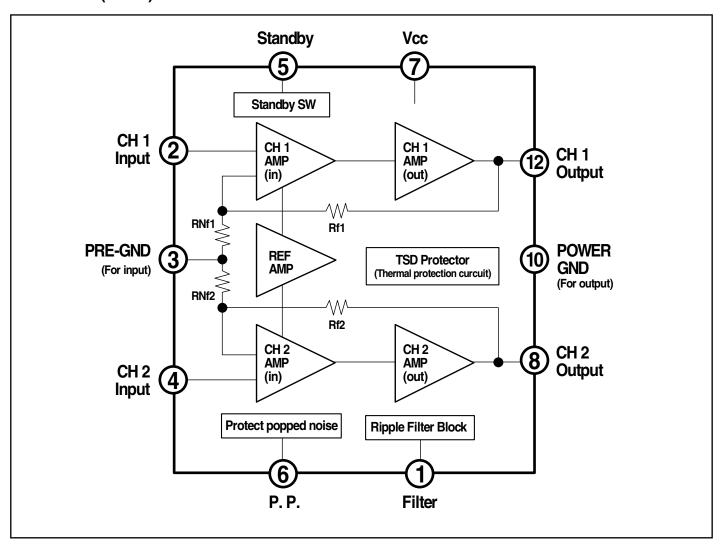


IC BLOCK DIAGRAMS (CONT.)

Audio Processor (IC3001)

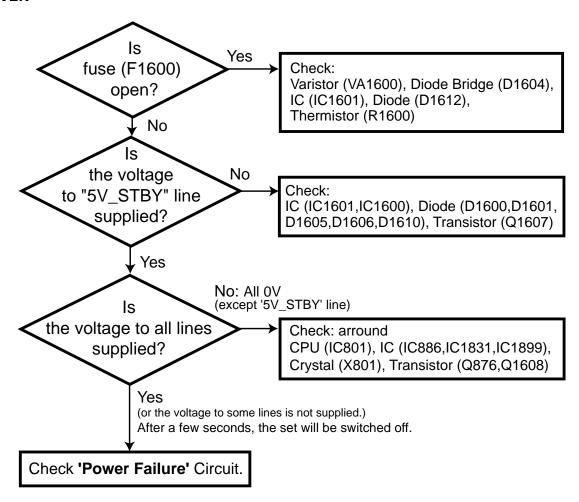


Audio AMP (IC001)



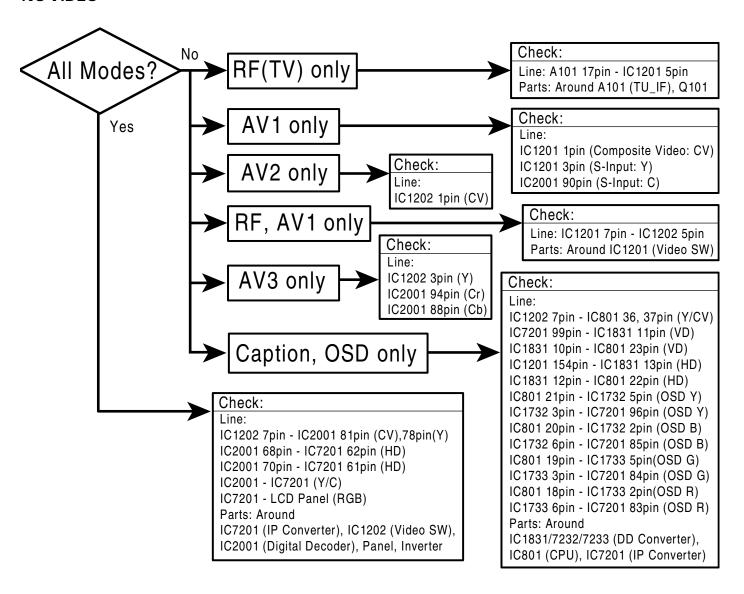
TROUBLE SHOOTING FLOW CHARTS

NO POWER

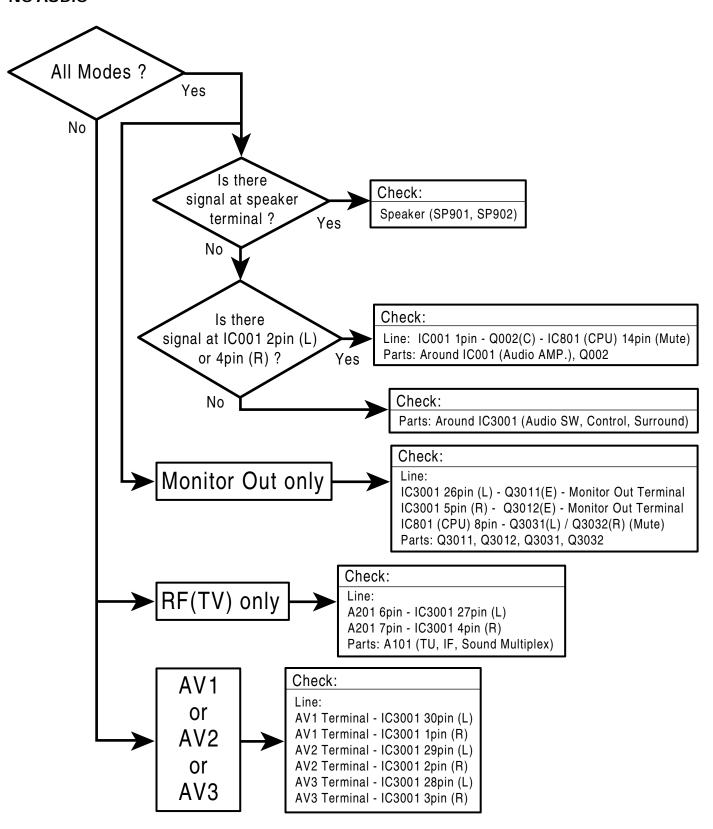


TROUBLE SHOOTING FLOW CHARTS (CONT.)

NO VIDEO



NO AUDIO



CONTROL PORT FUNCTIONS

System Control (CPU : IC801)

Pin	Name	Function	I/O	Description
1	P44	P-FAIL(DIGITAL)	IN	Power Failure for Digital Circuit, Failure : Low
2	P45	POWER-2	OUT	Power port for LCD panel, Panel On : Low
3	P46	ACK	OUT	IIC bus control for factory, Detect STATUS : Low
4	P47	STATUS	IN	IIC bus control for factory, Connect to factory line : Low
5	INT0	AC FAIL	IN	AC Shut-off port, Low : AMP Mute -> On
6	SCL1	SCL1	I/O	IIC Bus port for EEPROM, SCL : Clock
7	SDA1	SDA1	I/O	IIC Bus port for EEPROM, SDA : Data
8	P53	POWER-3	OUT	Power port for audio circuit, Power On : High
9	AIN1	PANEL OPT	IN	For Panel Option and BBE
10	P55	S-IN	IN	For S detection, Low: S-Input
11	AIN3	AFT	IN	AFT Voltage Input (RF)
12	AIN4	KEY IN	IN	Key Input
13	AIN5	APL	IN	APL Voltage Input
14	P62	AMP MUTE	OUT	Mute: High
15	P63	IO RESET	OUT	For color decoder, Reset : High
16	P57	P-FAIL(ANALOG)	IN	Power Failure for Analog Circuit, Failure : Low
17	N.C.	_	_	Not used
18	R	OSD-R	OUT	OSD-R Output
19	G	OSD-G	OUT	OSD-G Output
20	В	OSD-B	OUT	OSD-B Output
21	Υ	OSD-Y	OUT	OSD-Y Output
22	HD	OSD-HD	IN	OSD-Hsync Output
23	VD	OSD-VD	IN	OSD-Vsync Output
24	OSC1	OSC-CLK	IN	Clock Input for OSD
25	OSC2	OSC-CLK	OUT	Clock Output for OSD
26	TEST	TEST	IN	Test port
27	XIN	XIN	IN	Main Clock Input
28	XOUT	XOUT	OUT	Main Clock Output
29	RESET	RESET	IN	Reset port, Reset : Low level input
30	P20		IN	Not Used (Connect to Ground)
31	RXIN	RC IN	IN	RC Input
32	P31	LED	OUT	For LED, Power On: High
33	SCL0	SCL0	I/O	IIC Bus port for IC
34	SDA0	SDA0	I/O	IIC Bus port for IC
35	VVSS	VVSS	IN	Connect to ground
36	VIN1	VIDEO IN1	IN	CCD Data Slicer
37	VIN2	VIDEO IN2	IN	CCD Data Slicer
38	N.C.	-	_	Not used
39	VDD	VDD		5V
40	VSS	VSS	_	GND
41	P40	SCR RESET	OUT	Reset port for Scaler, Reset : High output
42	P41	B-LIGHT	OUT	For panel back light On/Off, Light On : High
43	PWM2	B-BRIGHT	OUT	For back light brightness, PWM Output, Bright: Low
44	P43	POWER-1	0	Power port for main, Power On : Low

I/O Expander (IC899)

Pin	Name	Function	I/O	Description
1	SO	SERIAL OUTPUT	-	-
2	SCL	BUS SCL	I/O	IIC Bus port, SCL : Clock
3	SDA	BUS SDA	I/O	IIC Bus port, SDA : Data
4	D0	_	IN	NOT USED
5	D1	_	IN	NOT USED
6	D2	_	IN	NOT USED
7	D3	_	IN	NOT USED
8	GND	GND	I	
9	D4	AV SWITCH 1	OUT	Connect to IC1001 2pin
10	D5	AV SWITCH 2	OUT	Connect to IC1001 4pin
11	D6	AV SWITCH 3	OUT	Connect to IC1002 2pin
12	D7	AV SWITCH 4	OUT	Connect to IC1002 4pin
13	VDD	VDD	_	5V
14	CS2	CHIP SELECT3	I	Fixed to Low
15	CS1	CHIP SELECT2	I	Fixed to Low
16	CS0	CHIP SELECT1	I	Fixed to Low

Mode Switching Table

Mode	SWITCH	1 SWITCH	2 SWITCH	3 SWITCH 4
TV	Low	High	Low	High
AV1 (Composite)	Low	Low	Low	High
AV1 (S-Input)	High	Low	Low	High
AV2	Low	Low	Low	Low

SCHEMATIC DIAGRAMS

NOTES ON SCHEMATIC DIAGRAMS

- 1. All resistance values in ohms K=1,000 M=1,000,000.
- 2. Unless otherwise noted on schematic, all capacitor values less than 1 are expressed in μF (Micro Farad), and the values more than 1 are in pF.
- 3. Unless otherwise noted on schematic, voltage reading taken with VOM from point indicated to chassis ground. Voltage reading taken using color-bar signal VHF channel 5, all controls at normal. Line voltage at 120 volts. Some voltages may vary with signal strength.
- 4. Waveforms were taken with color-bar signal and controls set for normal picture. Waveforms marked with an *may vary with signal strength.
- 5. The Symbol (w) indicates a fusible resistor, which protects the circuit from possible short circuits.

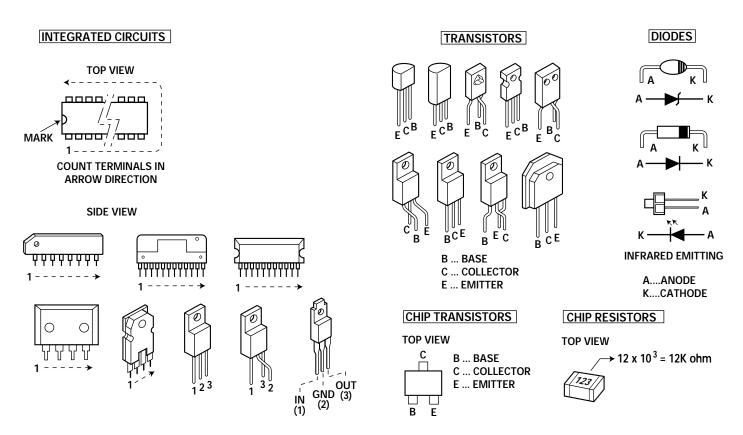
SERVICE NOTES:

1. When replacing parts on circuit boards, clamp the lead wires to terminals before soldering.

PRODUCT SAFETY NOTICE

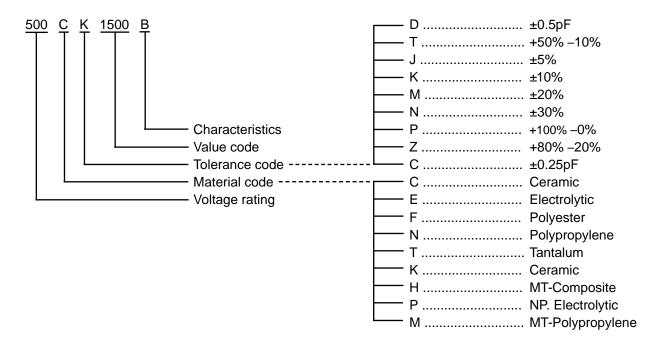
THE COMPONENTS DESIGNATED BY A STAR (*) ON THIS SCHEMATIC DIAGRAM DESIGNATE COMPONENTS WHOSE VALUES ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A STAR NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

IC, DIODE, AND TRANSISTOR PIN LAYOUTS

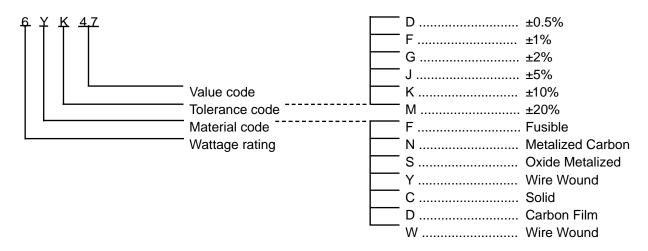


CAPACITOR AND RESISTOR CODE CHART

CAPACITOR (Example)



RESISTOR (Example)

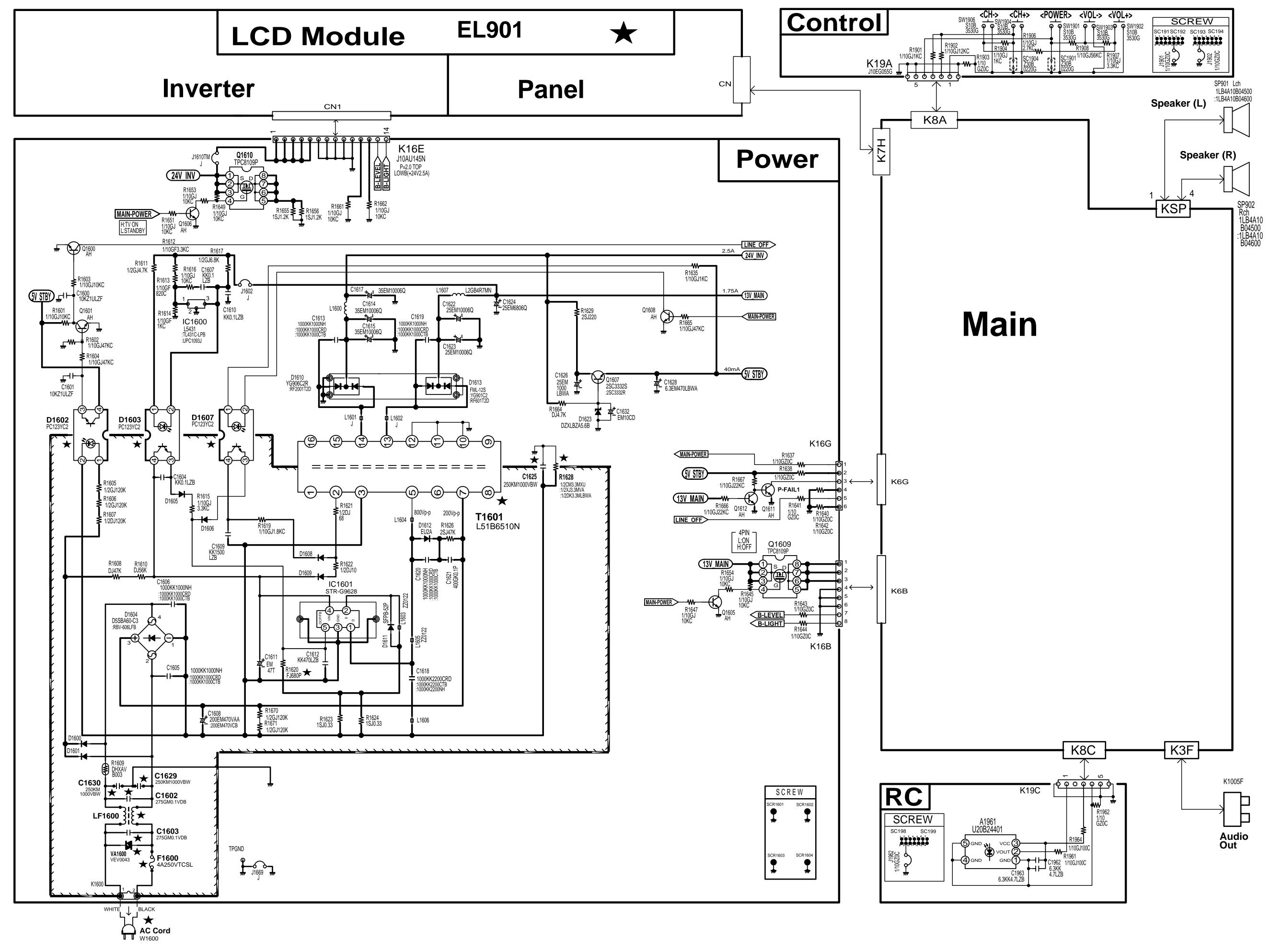


For parts or service contact SANYO Fisher Service Corporation 21605 Plummer Street Chatsworth, CA 91311 (U.S.A.)

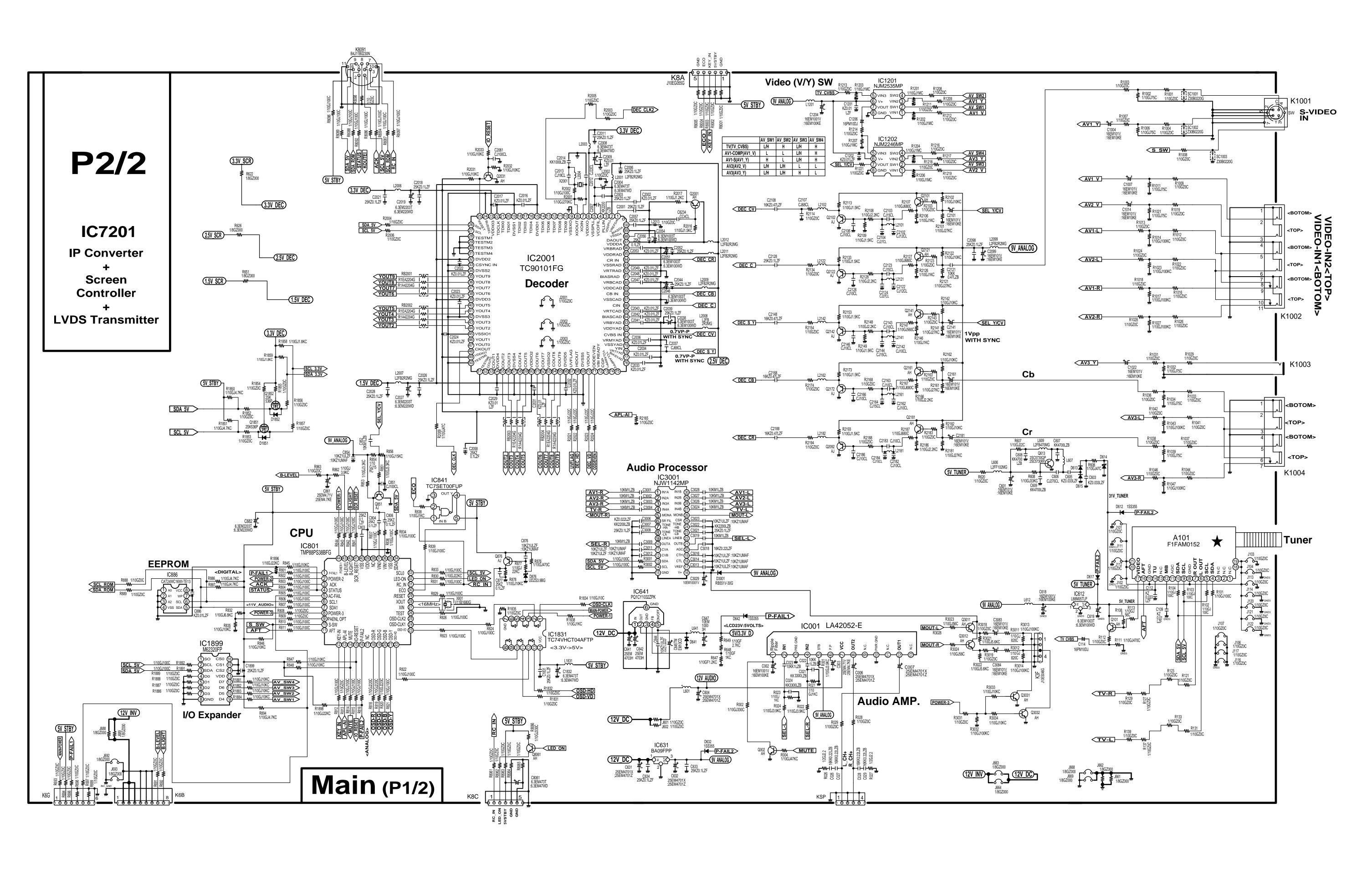
300 Applewood Crescent, Concord, Ontario L4K 5C7 (CANADA)

March / 2005 / 2000 SMC Printed in U.S.A. — 44 —

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To Panel

